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Grosser -



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John Gossman



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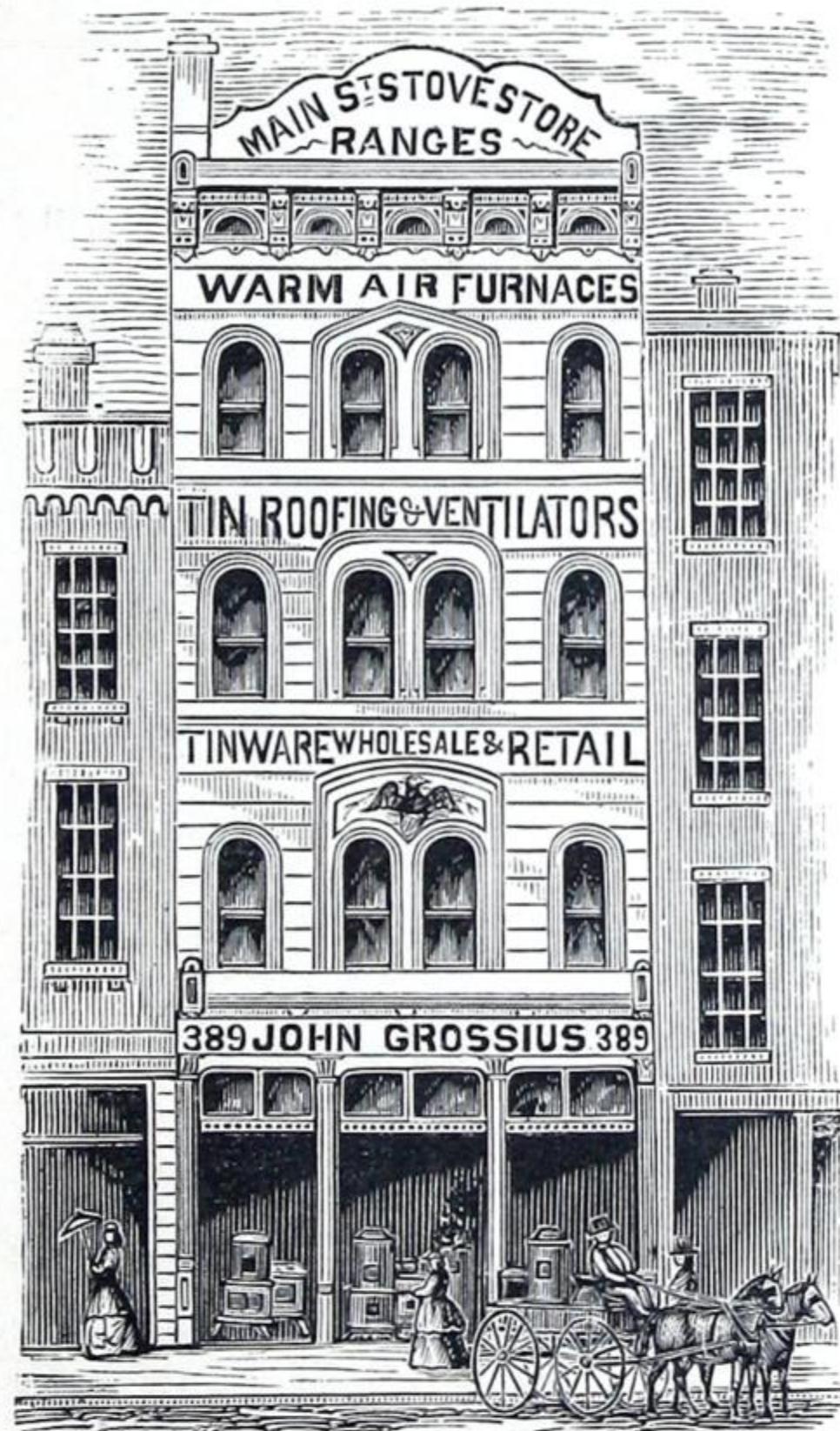
JOHN GROSSIUS,

Inventor and Manufacturer of Patent

School House Ventilating Stoves,

—AND—

WARM AIR FURNACES, REGISTERS, &c.



Office and Salesroom:

No. 389 Main Street, opposite Court House,

CINCINNATI, OHIO.



McDONALD & EICK,
Wood-Cut Printers,
168 VINE ST. CINCINNATI.



To the Public.

I respectfully invite the attention of the public, and particularly of School Trustees, Teachers, Ministers, and Superintendents of Buildings, to my Improved Patent Heating and School-House Ventilating Stove, which, after a trial of ten years, has been pronounced, by a large number of competent judges, the *best Heater and Ventilator* yet devised.

The same is in use in forty Public School-Houses of the City of Cincinnati, and also in a large portion of other cities and villages in several States.

In regard to its merits, I refer to some Testimonials on the following pages, given by gentlemen who have had opportunities to observe various methods of heating.

At the same time I recommend my Patent Warm Air Furnaces,—eighteen sizes,—which have a reputation for their superiority over all others in use. In regard to DURABILITY, ECONOMY OF FUEL, REGULARITY OF TEMPERATURE, POWER TO KEEP THE AIR PURE, AND TO PRESERVE THE NECESSARY DEGREE OF MOISTURE IN IT, THEY ARE UNSURPASSED. I also add some testimonials and references.

I warrant my School-House Stove and Furnaces to give perfect satisfaction.

Orders solicited, which will be executed promptly.

Any inquiries by letter, will be answered with dispatch.

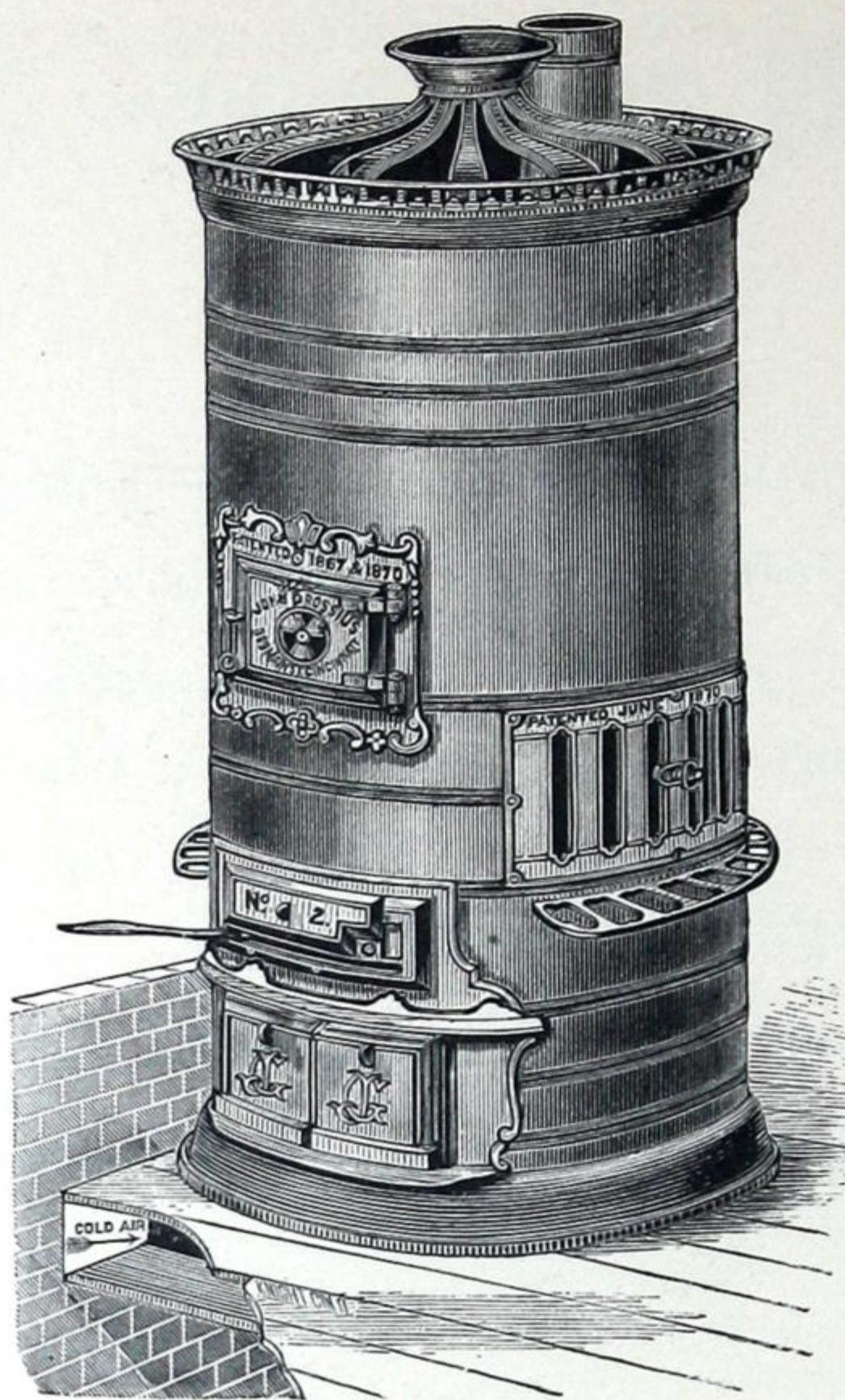
Respectfully Yours,

JOHN GROSSIUS,

389 MAIN STREET, Opp. COURT HOUSE,

CINCINNATI, June, 1876.

FIRST PRIZE MEDALS AWARDED
AT THE
CINCINNATI INDUSTRIAL EXPOSITION, 1870-'71-'72-'74.



GRAND MEDAL OF MERIT AWARDED

AT THE

WORLD'S EXPOSITION, AT VIENNA, 1873.

To Boards of School Trustees and Teachers.

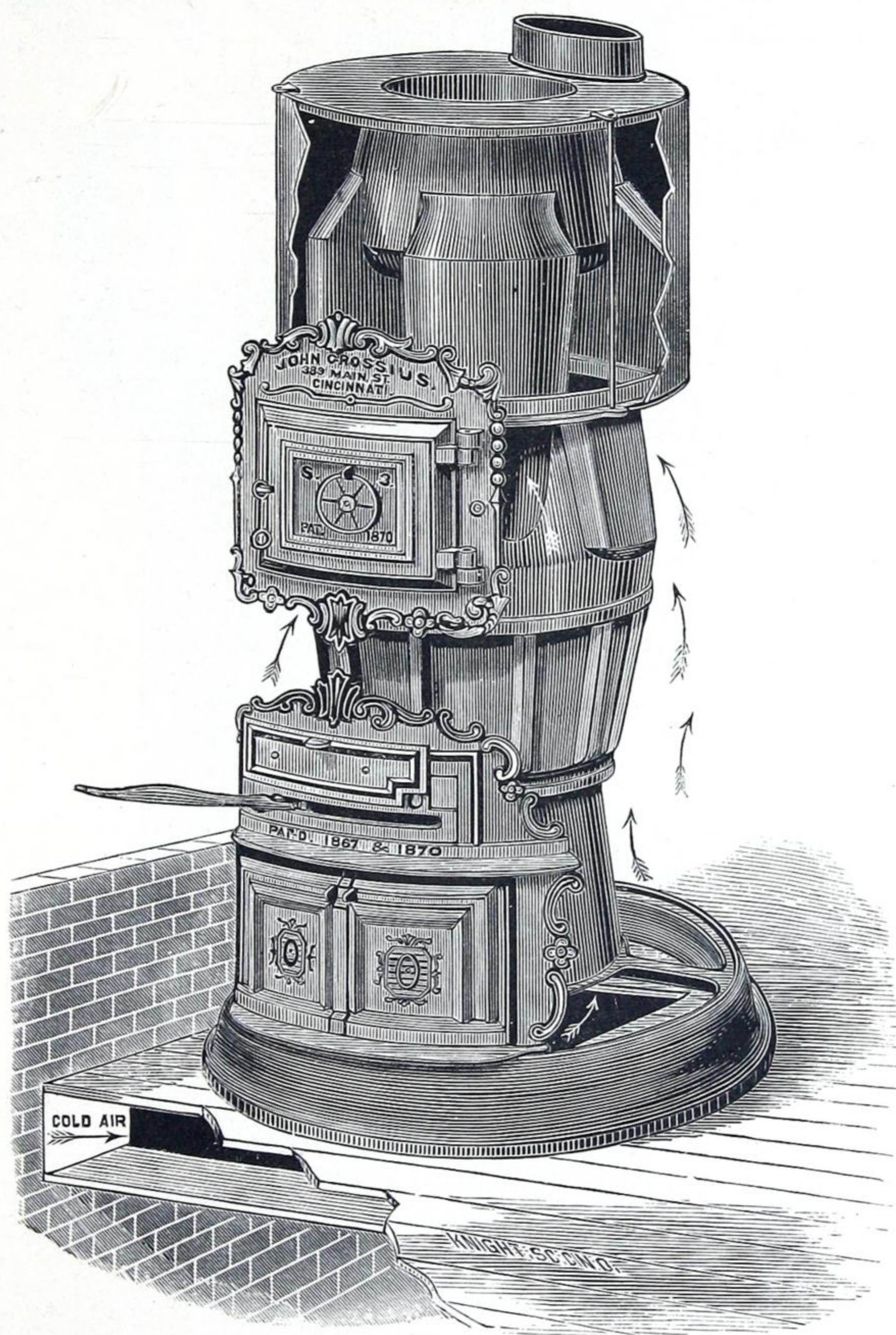
I take this means of bringing before you for consideration, my PATENT SCHOOL-HOUSE VENTILATING STOVES, the most valuable invention in Stoves yet made, for Heating School Rooms. Wherever used, they are universally recommended by both School Officers and Instructors, as the most economical, most durable and most complete Stove that came under their observation. Also the fact that the highest medal was awarded to this Stove at the Cincinnati Industrial Exposition in 1870, 1871, 1872 and 1874, and at the World's Exposition in Vienna in 1873, will show that this Stove is the best School-room Heater manufactured.

This School Room Heater and Ventilator will warm and thoroughly ventilate more space with the same amount of fuel, than any other Heater made, as has been proved at various times and places, by actual test. The fresh air is taken from the outside of the building and conducted under the floor to the Stove, and in passing between the Stove proper and the Casing, is warmed and passes out into the room, either at the top or side register, thus supplying the room with a current of warm fresh air, which forces the foul air out, making it a perfect ventilator, and establishing an even temperature all over the room.

These Stoves furnish two great wants:—Ventilation, and a full supply of warm, fresh air; the former being necessary to secure an active mental condition, without which, children make but little progress in their studies; the latter secures a healthy condition of the body; these simple facts in connection with its economy and durability bear directly upon the interest of the community, which you are serving, and as they are so constructed that either Anthracite (or Hard Coal), Bituminous (or Soft Coal), or Coke can be used with equal success, they are adapted for use in nearly all localities; this and other advantages make them desirable in every school-room. I therefore solicit your attention, if you are in want of Heaters, and hope you will look into the merits of my School-House Ventilating Stoves, now in use in all the Public Schools of Cincinnati, and in various cities in Ohio, Indiana and adjoining States.

I also manufacture HOT AIR FURNACES on the same principle and with equal success, which are especially adapted to heating and ventilating School-Houses, Churches, Stores Manufactories, and Dwelling Houses.

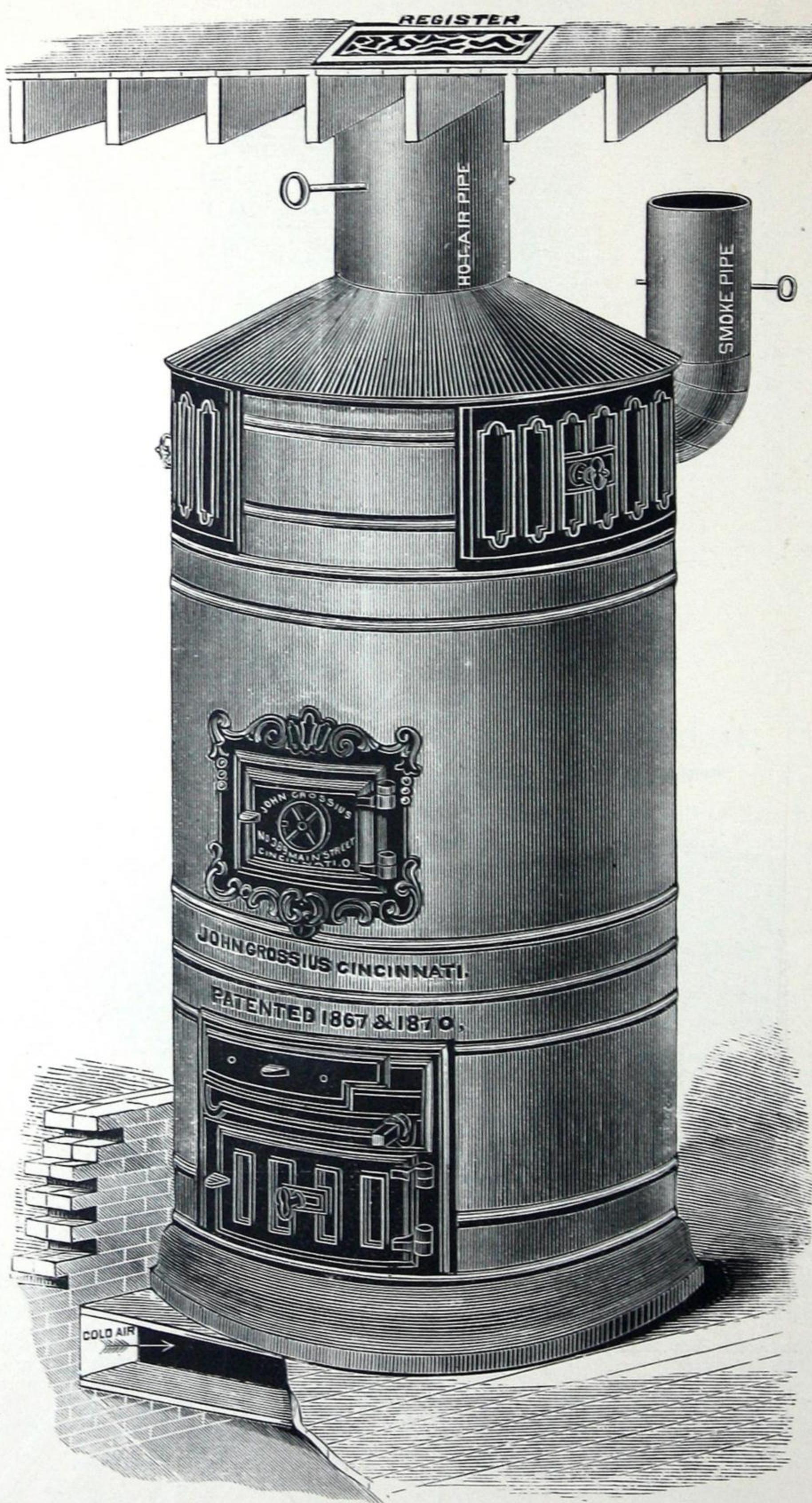
INTERIOR VIEW SCHOOL-HOUSE VENTILATING STOVE.



SIZE OF STOVE.	CAPACITY.	HEIGHT.		BASE DIAM.		PRICE.	Casing
		Feet.	Inch.	Feet	Inch.		
No. 1. Heats a room 35x40	24,000 ft.	5	0	2	10	\$75.00.	C'm. Casing
" 2. " " 28x32	15,000 "	4	6	2	7	\$50.00.	" "
" 3. " " 20x25	10,000 "	4	2	2	2	\$40.00.	" "

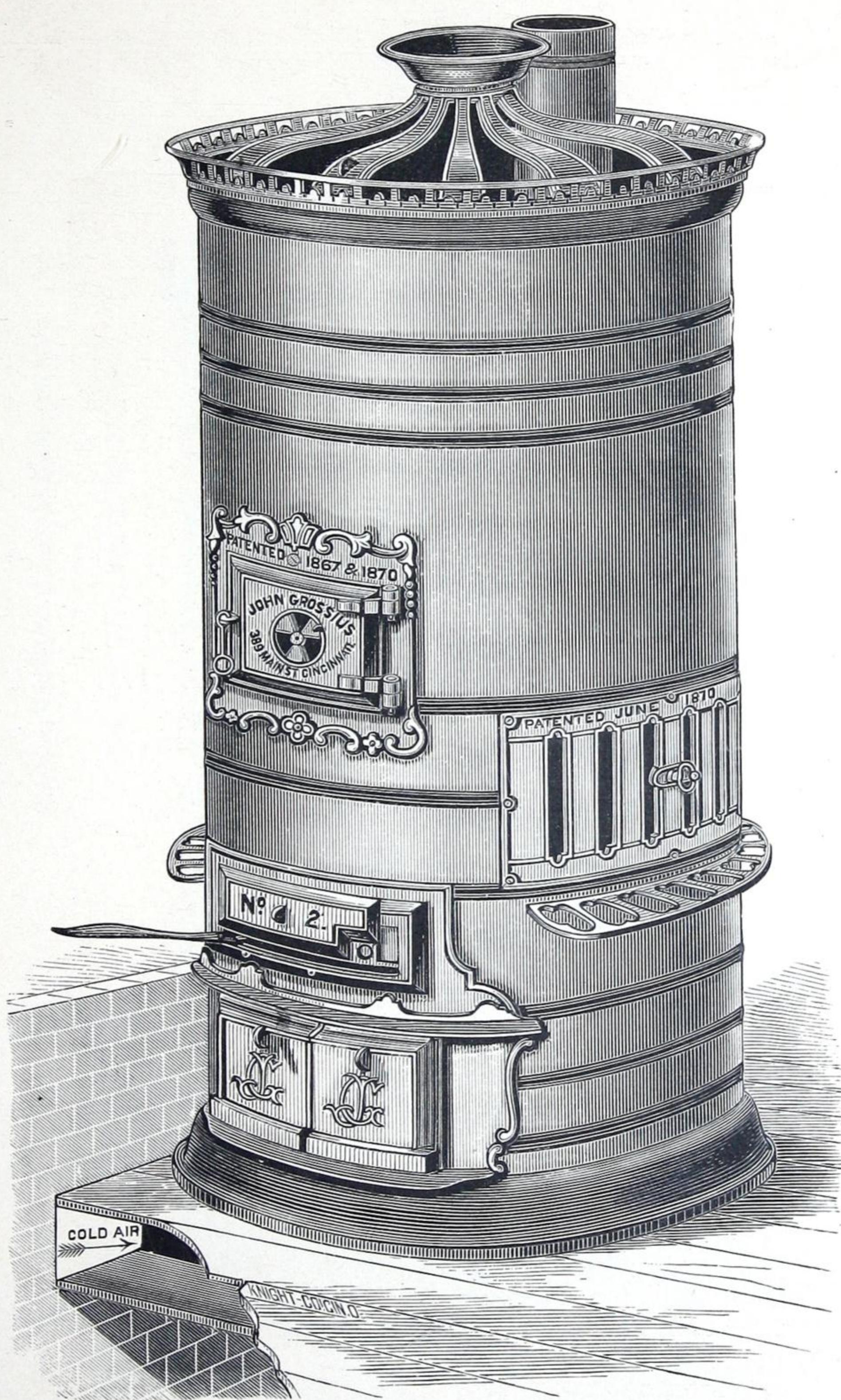
Additional Charge of \$5.00 for Russian Casing.

EXTERIOR VIEW OF NO. 1.

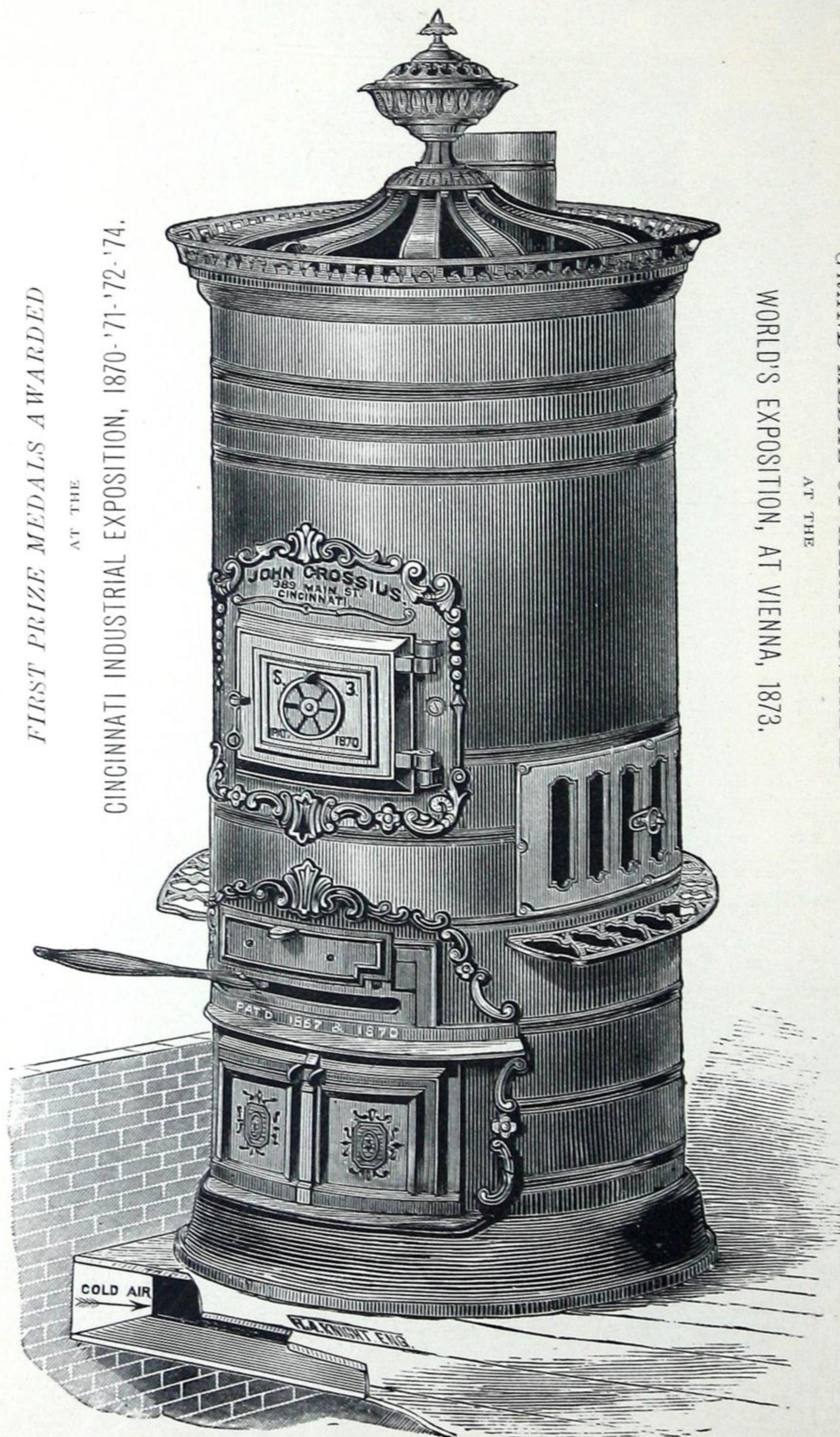


WHICH CAN BE USED IN HEATING TWO ROOMS.

EXTERIOR VIEW OF NO. 2.

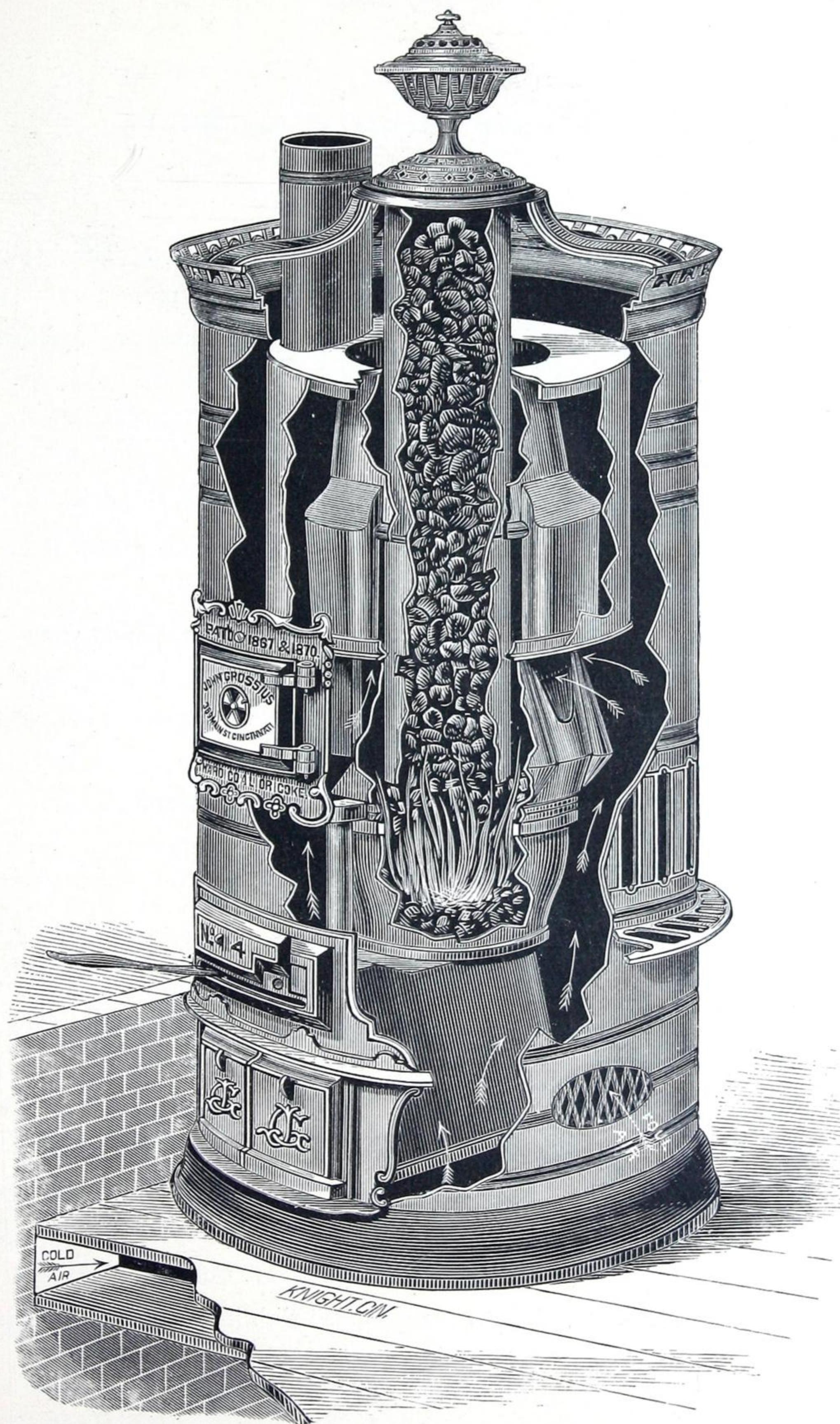


EXTERIOR VIEW OF NO. 3.



SCHOOL-HOUSE VENTILATING STOVE No. 4.

SELF FEEDER.



FOR ANTHRACITE COAL OR COKE.

EXPLANATION

TO THE

School-House Ventilating Stove.

Illustration on page five (5) shows the inside construction. The heating surface is very large, but the consumption of fuel is in proportion small. Three hundred cubic inches of fresh air, which in one second are conducted from the outside of the building, through an air-duct inside of the jacket of this Stove, enters the room warmed, when either the Top or Side Registers are opened.

Illustrations on pages (6, 7 & 8,) represent the outside view of the Stove, which shows that the pleasing exterior makes it an ornament for School Rooms, Churches, Halls, etc.

When the weather is cold and damp it is necessary to make the warm air at intervals pass through the Side Registers, which can be done by shutting the top register. The temperature can be regulated very easily by opening or shutting the Registers.

In order to prevent the melting of the grate, it is necessary to look to it that the ash pan be emptied before the ashes will touch the grate.

Directions for Putting Up the Stove.

In putting up Stove select the most convenient place in the room to avoid taking up space, cut hole in the floor between the joists, 12 x 16, which forms the cold air-duct, then cut hole outside in the wall according to the one in floor to allow the air in, line the cold air-duct directly beneath the Stove with zinc, and fill the bottom with one inch of mortar. On the outside of wall should be placed a Wire Screen or Cold Air Register, to give the opening a good appearance. If complied with instructions, the Heater can not fail to give satisfaction.



TESTIMONIAL.

JOHN GROSSIUS, Esq.,

Cincinnati, April 12, 1875.

The Committee on Stoves and Furnaces of the Board of Education of the City of Cincinnati, having witnessed a long and continued use in the Public School-Houses of your "Improved Heating and Ventilating School-House Stove," recommend it to the public as the best and most reliable Stove now in use. As a Ventilator and Heater it is far superior to all other Heating Apparatuses.

We further add that your "Patent Warm Air Furnaces" have been used in the Public School-Houses (to heat the halls) and been fairly tested and tried on their merits, and that we believe and recommend them as the best Furnace now in use.

OLIVER BROWN,
HENRY BERTLING,
J. H. BRUNSMAN,
RICHARD MANNING,
LOUIS BALLAUF. }
Committee.

*E. N. CLOPPER, Principal.**Cincinnati, May 1, 1872.*

JOHN GROSSIUS, Esq.

After several years' experience with Furnaces of various kinds, we have adopted the "Grossius' Stoves" as superior to any other heating apparatus for School House use.

W. J. O'NEIL,
J. H. BRUNSMAN,
Trustees Third District School.

FIRST DISTRICT SCHOOL, Cincinnati, May 1, 1872.

The "Grossius Ventilating Stoves" have been used in the First District School for four years, and as far as I know, they have given general satisfaction. I am convinced that they are better for school rooms than furnaces.

JAMES E. SHERWOOD, Principal.

EXPLANATION

THE following is a description of the apparatus and
method of using the same, and is intended to be
construed in accordance with the letter and spirit of the
claims, and with reference to the drawings, which are
intended to illustrate the invention.

FIGURE 1 is a plan view of the apparatus, showing
the stove, the cold air-duct, the cold air register, and
the pipe leading from the stove to the cold air-duct.

In putting up Stove select the most convenient place in the room to avoid taking up space, cut hole in the floor between the joists, 12×16 , which forms the cold air-duct, then cut hole outside in the wall according to the one in floor to allow the air in, line the cold air-duct directly beneath the Stove with zinc, and fill the bottom with one inch of mortar. On the outside of wall should be placed a Wire Screen or Cold Air Register, to give the opening a good appearance. If complied with instructions, the Heater can not fail to give satisfaction.



NINTH DISTRICT SCHOOL, *Cincinnati*, March 31, 1869.

JOHN GROSSIUS, Esq.

After one year's experience with the "Grossius Patent School House Ventilating Stove," and a series of competitive experiments, I feel warranted in recommending it as the best School House Heater that I have ever known.

W. H. MORGAN, *Principal*.

THIRTEENTH DISTRICT SCHOOL, *Cincinnati*, June 16, 1869.

JOHN GROSSIUS, Esq.

Your "Patent School House Ventilating Stove," I can unhesitatingly say, is the best of its kind I have ever seen, and this is, moreover, the opinion of our teachers.

N. J. THOMPSON.

Cincinnati, February 16, 1870.

JOHN GROSSIUS, Esq.

Dear Sir:—Your "School House Heaters" have been well tried in our houses, and have given general satisfaction. They provide, in their construction, for both heating and ventilating, and rank among the very best things known to me for that purpose.

C. H. GOULD,
Chairman of Committee on Stoves and Furnaces.

East Liverpool, O., Feb. 16, 1872.

JOHN GROSSIUS, Esq.

The Stove is without doubt the best Heater for a school room yet devised.

H. R. HILL,
Sec'y Board of Education.

EIGHTEENTH DISTRICT SCHOOL, *Cincinnati*, April 25, 1872.

In the Autumn of 1870, the Committee on Stoves and Furnaces of the Board of Education removed the stoves in my school house, and replaced them with eight of your Patent Heaters.

With my experience, especially during the severe winter just ended, I can heartily commend these heaters for their admirable ventilating qualities. Their heat is equally diffused throughout the room, rendering all portions comfortable in a very short time.

E. N. CLOPPER, *Principal*.

Cincinnati, May 1, 1872.

JOHN GROSSIUS, Esq.

After several years' experience with Furnaces of various kinds, we have adopted the "Grossius' Stoves" as superior to any other heating apparatus for School House use.

W. J. O'NEIL,
J. H. BRUNSMAN,
Trustees Third District School.

FIRST DISTRICT SCHOOL, *Cincinnati*, May 1, 1872.

The "Grossius Ventilating Stoves" have been used in the First District School for four years, and as far as I know, they have given general satisfaction. I am convinced that they are better for school rooms than furnaces.

JAMES E. SHERWOOD, *Principal*.

TWELFTH DISTRICT SCHOOL, *Cincinnati, May 3, 1872.*

JOHN GROSSIUS, Esq.

Dear Sir:—Formerly the Twelfth District School was heated by Hot Air Furnaces, and the health of both teachers and pupils greatly injured thereby. Since ventilating Stoves of your pattern have been used there has been a marked improvement in the health and comfort of all attending our school.

I cheerfully recommend them for use in the school-room.

Very respectfully,

THOMAS SCANLAN, *Principal.*

FIFTEENTH DISTRICT SCHOOL, *Cincinnati, May 3, 1872.*

One of the two houses belonging to the Fifteenth District School is heated by a Hot Air Apparatus, the other by the "Grossius Patent School-House Stove." The difference between these two modes of heating becomes apparent at once.

The Stoves near the entrance door break the current of cold air in winter when the door is opened and shut. The children sit near the stove without feeling any inconvenience from the heat.

But the greatest point of superiority of the "Grossius Stove" is the pleasant, moist, healthy air, which fills every corner of the room where it is used. Several of the teachers have had to teach one-half day in one house, and the rest of the time in the other house, and it was always a matter of rejoicing for them to go to the rooms with the pure air produced by the "Grossius Stove."

A. KNELL, *Principal.*

SECOND INTERMEDIATE SCHOOL, *Cincinnati, May 8, 1872.*

JOHN GROSSIUS, Esq.,

Dear Sir:—After an experience of three years with your "Patent School House Ventilating Stove," I am satisfied that they are EVERY THING you claim for them.

JOHN B. PEASLEE, *Principal.*

TWENTY-THIRD DISTRICT SCHOOL, *Cincinnati, May 10, 1872.*

The "Grossius Patent School House Ventilating Stove" has been in use in all the rooms of the Twenty-third District School for the last two years, and has given entire satisfaction.

When well regulated, it diffuses a uniform heat, and a constant supply of fresh air through all parts of the room, without emitting noxious gases. It consumes a comparatively small quantity of fuel, and has the great advantage, that the children, when wet from rain, can easily dry their clothes without being in danger of burning them. I know of no better heating apparatus for schools, than the "Grossius Patent Stove."

HENRY DOERNER, *Principal.*

SEVENTEENTH DISTRICT SCHOOL, *Cincinnati, May 30, 1872.*

The "Grossius Patent School-House Ventilating Stoves" have been in use in our house about two years. The universal opinion of our teachers is, that it is just the stove needed.

JNO. S. HIGHLANDS, *Principal.*

JOHN GROSSIUS, Esq.

Cincinnati, March 16, 1873.

As a member of the Board of Education, I have had various opportunities of witnessing the merits of your "Patent School House Ventilating Stove." In reference to it, I must say, no other Heater ever before used in the Cincinnati schools, has given such entire satisfaction. Its rare qualities at once recommend it as a most excellent heating apparatus. As an economizer of fuel and a regulator of temperature, I verily believe it stands unsurpassed.

D. J. MULLANEY,
Chairman of Committee on Stoves and Furnaces.

HIGH SCHOOL, *Indianapolis, November 14, 1873.*

JOHN GROSSIUS, Esq.

Dear Sir:—We have been using the “Grossius Stove” in our High School Building for a year and a half. It has given entire satisfaction. It furnishes sufficient heat for a room holding 125 pupils, and gives at the same time a constant supply of pure air. The arrangement for regulating the amount and temperature of the air admitted is most excellent, and for economy in the use of fuel it is unsurpassed.

GEO. P. BROWN, *Principal.*

Indianapolis, November 14, 1873.

JOHN GROSSIUS, Esq.

Dear Sir:—At your request, concerning my opinion of your “School-House Ventilating Stove,” I will say that it is the best Stove for that purpose that has come under my notice; as experience has shown it to be the most durable and economical. It has, therefore, been universally adopted at the Public Schools in this City.

H. B. STEWART,

Building and Supply Agent of Public Schools of Indianapolis.

FOURTEENTH DISTRICT SCHOOL, *Cincinnati, Nov. 25, 1873.*

I have used the “Grossius Stove” in the Riddle Street House, the 18th and 14th Districts, with entire satisfaction.

It is the cleanest, safest, most valuable and best Stove for school purposes now in use.

A strong feature in its favor, is the continual introduction of Fresh Air into the school-room.

JOHN B. SCHEIDEMANTLE, *Principal.*

THIRD DISTRICT SCHOOL, *Cincinnati, Nov. 28, 1873.*

JOHN GROSSIUS, Esq.

Dear Sir:—After using your “Patent School-House Ventilating Stoves” three years, I consider them far superior to either Hot Air or Steam Furnaces for school use.

Respectfully,

W. A. FILMORE, *Principal.*

THIRTEENTH DISTRICT SCHOOL, *Cincinnati, Dec. 1, 1873.*

The “Grossius Stove” gives a large heating surface; the ventilation is very easily controlled; the parts are easily renewed; the air when warmed is directed upward or sideways at pleasure, the whole material of the stove becomes very quickly heated.

These qualities have led me to recommend this stove to School Trustees.

It is the best School Stove I have seen in a quarter of a century’s experience.

GEO. C. WOOLLARD, *Principal.*

Cincinnati, Dec. 1, 1873.

JOHN GROSSIUS, Esq.

Sir: In reply to your note of the 9th inst., asking me for my opinion of the merits of your “Improved Heating and Ventilating School-House Stove.” I answer that in my knowledge of Stoves of this kind, I know of none that are superior to your “Latest Improved School-House Stove,” and can, from my experience in the warming and ventilating of the School Buildings of this city recommend it to the confidence of the public for the purpose of the above named.

Respectfully,

JOHN McCAMMON,
Superintendent of Public School Buildings.

FOURTH INTERMEDIATE SCHOOL, *Cincinnati, Dec. 1, 1873.*

After having used the “Grossius Patent School-House Stove” for several years I am convinced it has no superior for heating school-rooms. It introduces pure fresh air, from outside into the room. The air heated thus, is at all times healthy. I can not too highly recommend this “School Heater.”

GEO. F. SANDS, *Principal.*

FIRST INTERMEDIATE SCHOOL, *Cincinnati, Dec. 1, 1873.*

The "Grossius Ventilating Stoves" have been in use in the First Intermediate School during the last three years. Teachers and pupils are now comfortable in the coldest weather. Furnaces were a failure in this respect. The supply of pure warm air is always abundant. A healthful temperature has been easily maintained in the coldest weather. In every sense these Stoves have proven to be a perfect success.

G. A. CARNAHAN, *Principal.*

SIXTEENTH DISTRICT SCHOOL, *Cincinnati, Dec. 3, 1873.*

JOHN GROSSIUS, Esq.

After nearly four year's use of the "Grossius Patent School-House Ventilating Stove," I am convinced that it is the best means of heating school-rooms I have yet seen.

Very respectfully, yours,

JOHN J. MARVIN, *Principal.*

NINTH DISTRICT SCHOOL, *Cincinnati, Dec. 5, 1873.*

JOHN GROSSIUS, Esq.

Dear Sir: Your "School-House Ventilating Stove" has given entire satisfaction during the past severe winter to the teachers of this District; and I cheerfully recommend it as superior to any I have known for economy, and regularity of temperature.

Truly yours,

A. A. LONG, *Principal.*

JOHN GROSSIUS, Esq.

Cincinnati, Dec. 15, 1873.

Your "Patent School-House Ventilating Stove" has been in use in the Second District School along with stoves of different patterns, etc. I do not hesitate to pronounce it the best I have seen.

As to heating a room evenly it stands unsurpassed by Iron Stoves, ranking in that respect with European Tile Stoves; being, however, far superior to them in regard to ventilating.

It furnishes a good supply of fresh air without producing a draught so strong as to be prejudicial to health.

AUGUST BODE.

D. B. BAYLESS, Esq.

Cincinnati, January 3, 1874.

I take great pleasure in recommending the "Grossius Stove" for School-House purposes. Having used the Lotze's and the "Grossius" for the same length of time, side by side, I have no hesitancy in giving decided preference to the "Grossius."

Yours, very truly,

J. W. HALL, JR.
Principal High School, Covington, Ky.

Detroit, December, 1874.

My experience with your Stove is: That, with the *same* fuel, and the *same stove* cost, your Stove does *twice* the work in the *same* time in a far more healthful way. Your stoves ought to be named business.

Yours,

ISAAC M. WELLINGTON, *Principal Detroit High School.*
DUANE DOTY, *Supt. Detroit Public Schools.*

JOHN GROSSIUS, Esq.

CHICKERING INSTITUTE, *March 20, 1876.*

Dear Sir:—The "Heater" we purchased of you two winters ago, has given perfect satisfaction, in *every respect*. It supplies an abundance of pure, warm air, which is diffused so equally in every part of the room, that every pupil is comfortable. All the teachers are ready to endorse any words of praise, which may be offered in reference to its superior excellencies.

Respectfully,

J. B. CHICKERING.

THIRD INTERMEDIATE SCHOOL, *Cincinnati, March 23, 1876.*

JOHN GROSSIUS, Esq.

Dear Sir:—I take pleasure in adding a word of praise to what has been said in regard to the merits of your “School-House Ventilating Stove.” During several years experience as teacher in the Cincinnati schools, I have had opportunities to witness the heating of rooms by hot-air, steam, and the “Grossius Stove.” I am compelled to state that, as far as my observation has extended, hot-air and steam were failures, and that the best means now employed in heating our schools is your stove. In its favor the following points can be urged:

1st. It is a *safe method* of heating, while steam produces constant anxiety, or fear of accidents.

2nd. It is economical. With a less amount of fuel it gives out more and better heat than steam or hot-air apparatus.

3rd. When properly attended to, that is when a constant flow of pure air is allowed to come in contact with the surface of the heater, a healthful warmth is diffused through the room.

4th. It is particularly preferable to the other means of heating, because children can more easily reach the source of heat, and be benefited by it. This is especially noticeable on cold rainy mornings, the pupils being enabled to dry their clothing, while where hot-air or steam is used they are obliged to sit in wet garments, or be sent home.

5th. My experience proves that heat disseminated by your stove is not of that poisonous character spread by hot-air or steam. Those under its influence do not complain of headache.

For the above reasons I cheerfully commend your stoves. While the duty of regulating it is simple enough for a child to understand, its advantages over other means of heating are prominently marked.

Respectfully yours,

E. H. PRICHARD, *Principal.*

TENTH DISTRICT SCHOOL, *Cincinnati, April 4, 1876.*

JOHN GROSSIUS, Esq.

I cheerfully testify to the superiority of your Patent School House Ventilating Stove over all other kinds that I have seen.

It heats quickly and equally, ventilates thoroughly, and economizes fuel.

We are rapidly ridding ourselves of the old fogy stove of the past generation, introducing yours instead.

Yours, &c.,

H. H. RASCHIG, *Principal.*

SIXTEENTH DISTRICT SCHOOL, *Cincinnati, May 23, 1876.*

JOHN GROSSIUS, Esq.

Dear Sir:—I cheerfully bear testimony to the efficiency of the Stoves which you put up in this house. In the care of any one who at all understands how to use a coal-stove, they are, in my estimation, amply sufficient to warm any one of our rooms in the coldest weather which we experience. They are the most excellent Stoves I have ever seen in a school-room.

With much respect,

WM. E. ORR,

Principal.

Cincinnati, May 26, 1876.

JOHN GROSSIUS, Esq.

Dear Sir:—Your Patent School-House Ventilating Stoves put up in our Dining Room and connected with the Church, heating both apartments thoroughly, have proven successfully and given entire satisfaction. We therefore cheerfully recommend them to any one for their admirable ventilating qualities and economy in fuel. Their heat is equally diffused throughout the apartments, producing all portions comfortable in a very short time.

THE LITTLE SISTERS OF THE POOR.

Cincinnati Montgomery Road.

These Stoves are now used in the following School Houses in Cincinnati, viz:—1st, 2d, 3d, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 21st (four houses), 22nd, 23rd, 24th and 25th District School Houses; 1st, 2d, 3d and 4th Intermediate School-Houses, and in the Hughes High School Building; also Cumminsville, College Hill, Farmer’s College, Riverside, Wornington and Avondale.

REPORT OF THE PITTSBURG BOARD OF EDUCATION,

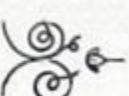
Allegheny City, Pa.

We visited many of the schools in both cities, for the purpose of ascertaining the best method of heating and ventilating school houses, and we found general dissatisfaction in both respects. One new building, the size of our own, was said to give satisfaction, the cost of which was \$5.800. By reading the Cincinnati School Reports, we found that in that city they were tearing down the old heaters, and substituting in their place the "Grossius" Self Ventilating Stoves. In the latter part of last winter, we sent for one to test its efficiency, and we were so much pleased with its efficiency for heating, combined with economy and healthfulness, that we resolved to place one in every room in the building.

The advantages that these stoves have over any other that we know of, is that the room is filled with a current of fresh air drawn through a conductor from the outside of the building, in passing up between the stove and casing, the air is thoroughly heated and equally diffused through the room whether large or small.

The well known firm of Messrs. Anshuts & Son, are the agents for the same, and have furnished them to the Board at the low cost of \$50.00 a piece.



 REFERENCES. 

BOARDS OF EDUCATION.

Cincinnati, Ohio,	Franklin, Ohio,	Louisville, Kentucky,
Cambridge, Ohio,	Martin's Ferry, Ohio,	Covington, Kentucky,
Delaware, Ohio,	Ironton, Ohio,	Indianapolis, Indiana,
Dayton, Ohio,	Athens, Ohio,	Bloomington, Indiana,
Middletown, Ohio,	Wilmington, Ohio,	Pittsburg, Pennsylvania,
Hamilton, Ohio,	Madisonville, Ohio,	Allegheny, Pennsylvania.
Mount Vernon, Ohio,	Mount Airy, Ohio,	Milwaukee, Wisconsin,
Columbus, Ohio,	Wyoming, Ohio,	Germantown, Ohio,
Washington, C. H., Ohio,	Milford, Ohio,	East Liverpool, Ohio,
Detroit, Michigan,	Memphis, Tennessee,	Cleveland, Ohio.

INDIVIDUALS.

INDIANA.

George W. McAvoy, Rising Sun,
 P. Thompson, Rising Sun,
 Robert C. Foster, Bloomington,
 Colonel Thompson, Bloomington,
 King & McNamee, Wabash,
 John Leichner, Fort Wayne,
 Brandriff, Prescott & Co., Fort Wayne,
 Dixon & Co., Kokomo,
 John Eckert, Madison,
 Jacob Vogetle, Indianapolis,
 Thomas Scantlan & Son, Evansville.
 Smith & Townley, Terre Haute.

PENNSYLVANIA.

D. D. Doudel, York,
 H. Anschutz & Son, Pittsburgh.

ILLINOIS.

G. W. Bolinger, Springfield,
 Belcke & Westmeyer, Peoria,
 Spencer & Nofsker, Rock Island,
 Johnson & Glover, Jacksonville,
 W. Rhode, Olney.
 Nichols & Grierson, Jacksonville.

Farmers' College, Hamilton County, O.
 Cincinnati Court House, Hamilton Co., O.
 City Infirmary, Hamilton County, O.
 Hamilton Court House, Butler Co.

OHIO.

W. H. Cole, Wilmington,
 D. H. Stickney, Athens,
 A. L. Roach, Athens,
 W. J. Prall, Pomeroy,
 George O. Berg, Ironton,
 J. R. Cline, Martin's Ferry,
 John Kellhofer, Chillicothe,
 W. Evans, Schooley Station,
 Gearhard & Phister, Piqua,
 Dorst & Renk, Zaleski,
 John Shum, Washington Court House,
 Ph. J. Kromer, Columbus,
 C. H. D. Yarmett & Bro., Cambridge,
 J. Nicholson & Son, Delaware,
 G. W. McCormack, Zanesville,
 A. W. Beall, Dayton,
 Jacob Mathias, Hamilton,
 Byers & Bird, Mount Vernon.

IOWA.

McQuestion & Sawyer, Muscatine,
 James H. Dumont, Davenport.

OTHER STATES.

C. E. Stifel & Son, Wheeling, W. Va.
 John Goodin, St. Louis, Missouri,
 Renz & Fischer, St. Louis, Missouri,
 Peterman, Stredy & Co., Milwaukee, Wis.
 H. Raymond, Racine, Wisconsin,
 Pine & Creighton, Louisville, Kentucky,
 Chris. Riesner, Washington, D. C.
 Titusville School Board, Titusville, Pa.

EXTERIOR VIEW OF WALLED UP FURNACE.



No. 0,

Capacity,—60,000 Cubic Feet.

Price, \$300.

" 1,

" 50,000 " "

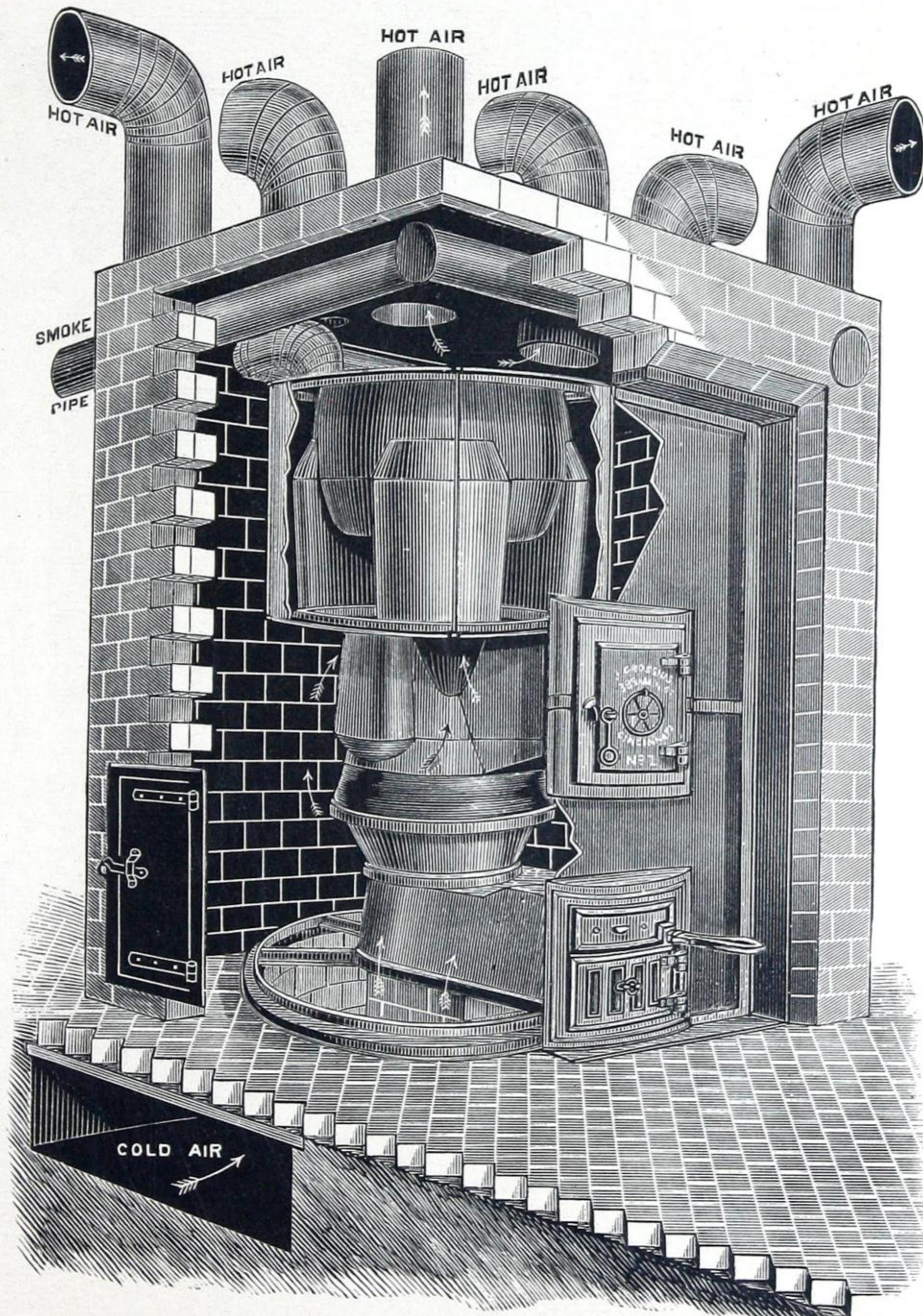
" 200.

" 2,

" 85,000 " "

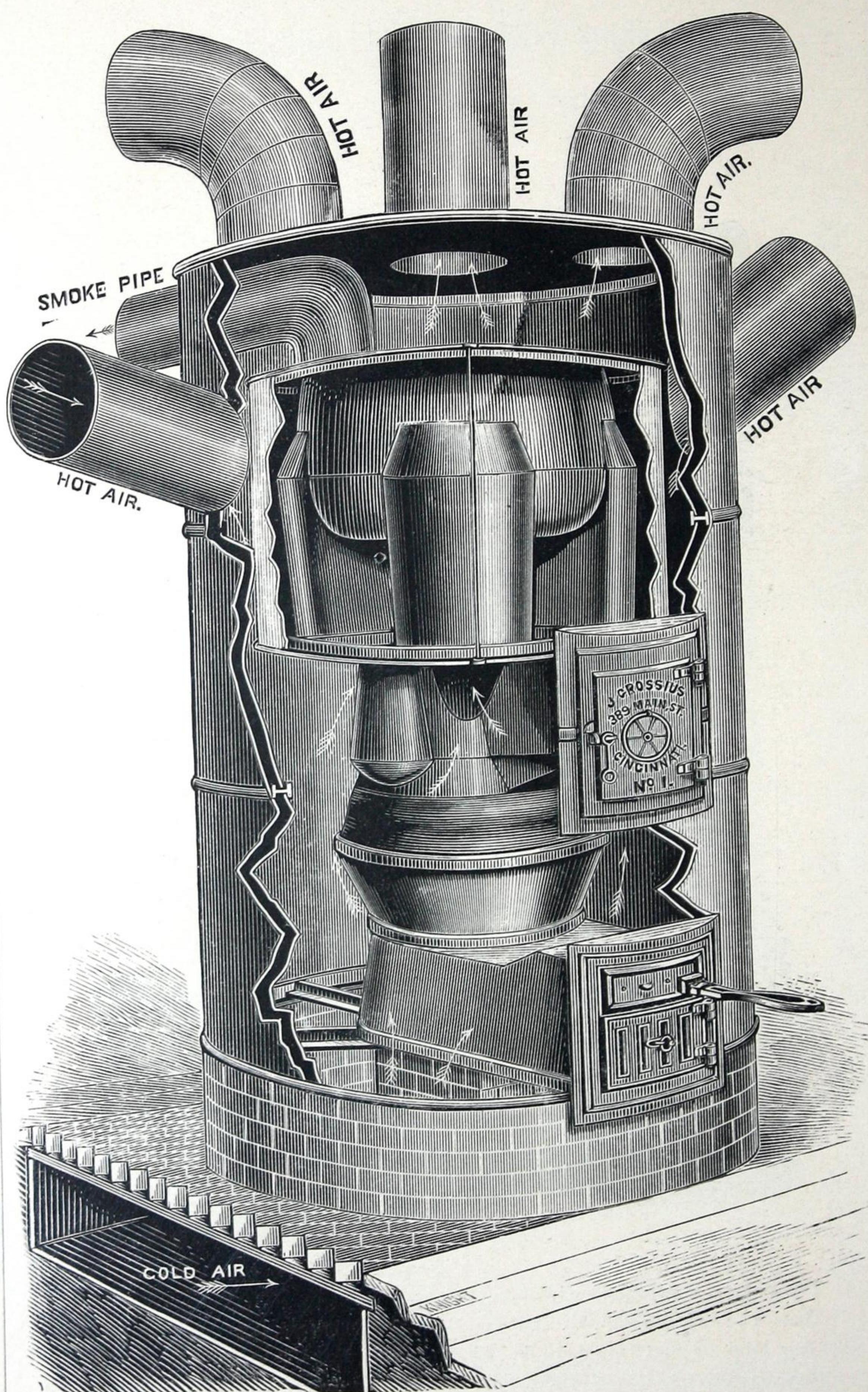
" 175.

INTERIOR VIEW OF WALLED UP FURNACE.



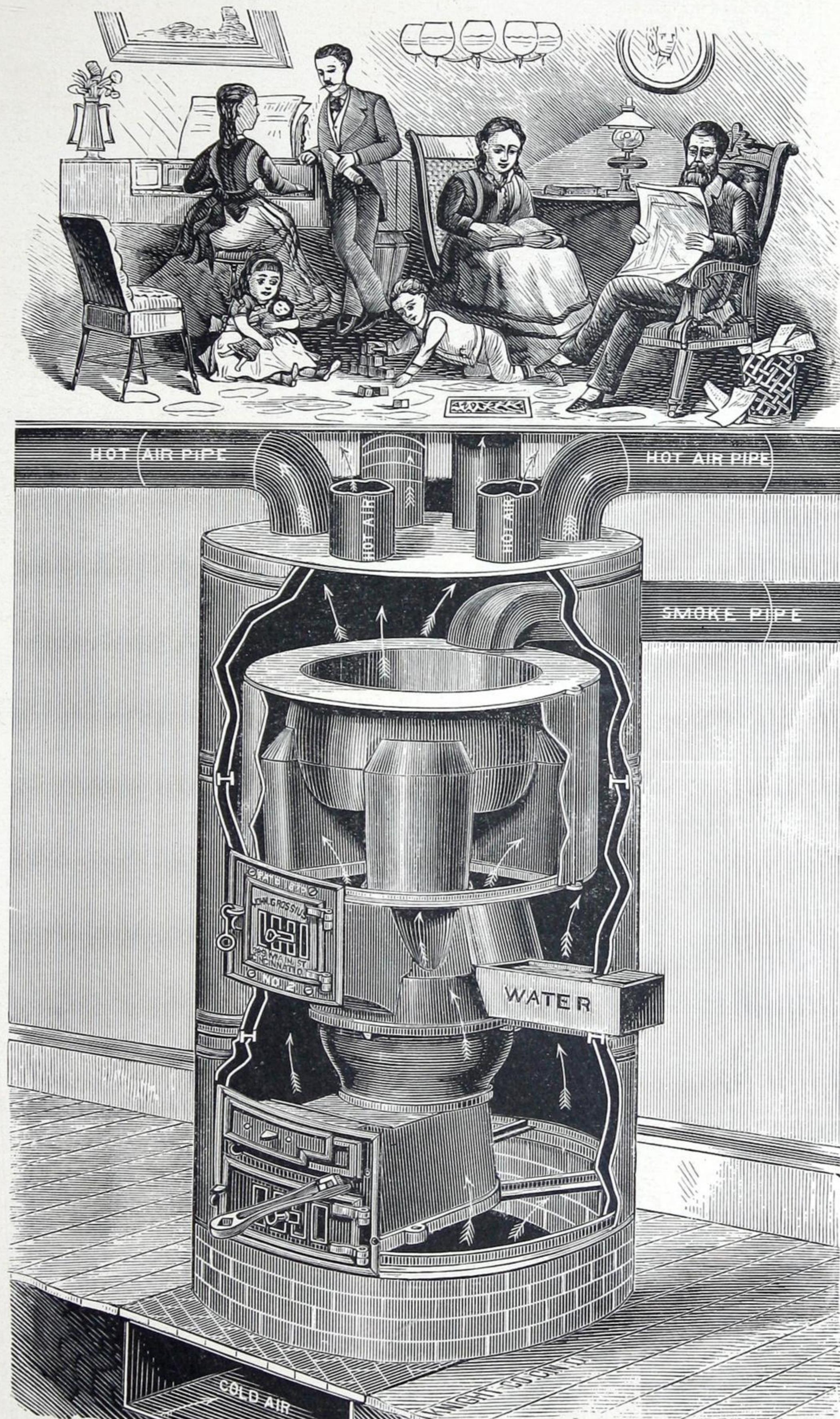
This Furnace is generally used in Churches, &c.

There is no difficulty with this Furnace. As it appears in repairing or cleaning in general, some may think we must take down the wall around it. No! it is very simple. The front of the Furnace can be taken down entirely by merely undoing the screws, which give a person full play to get at it wherever he wants.



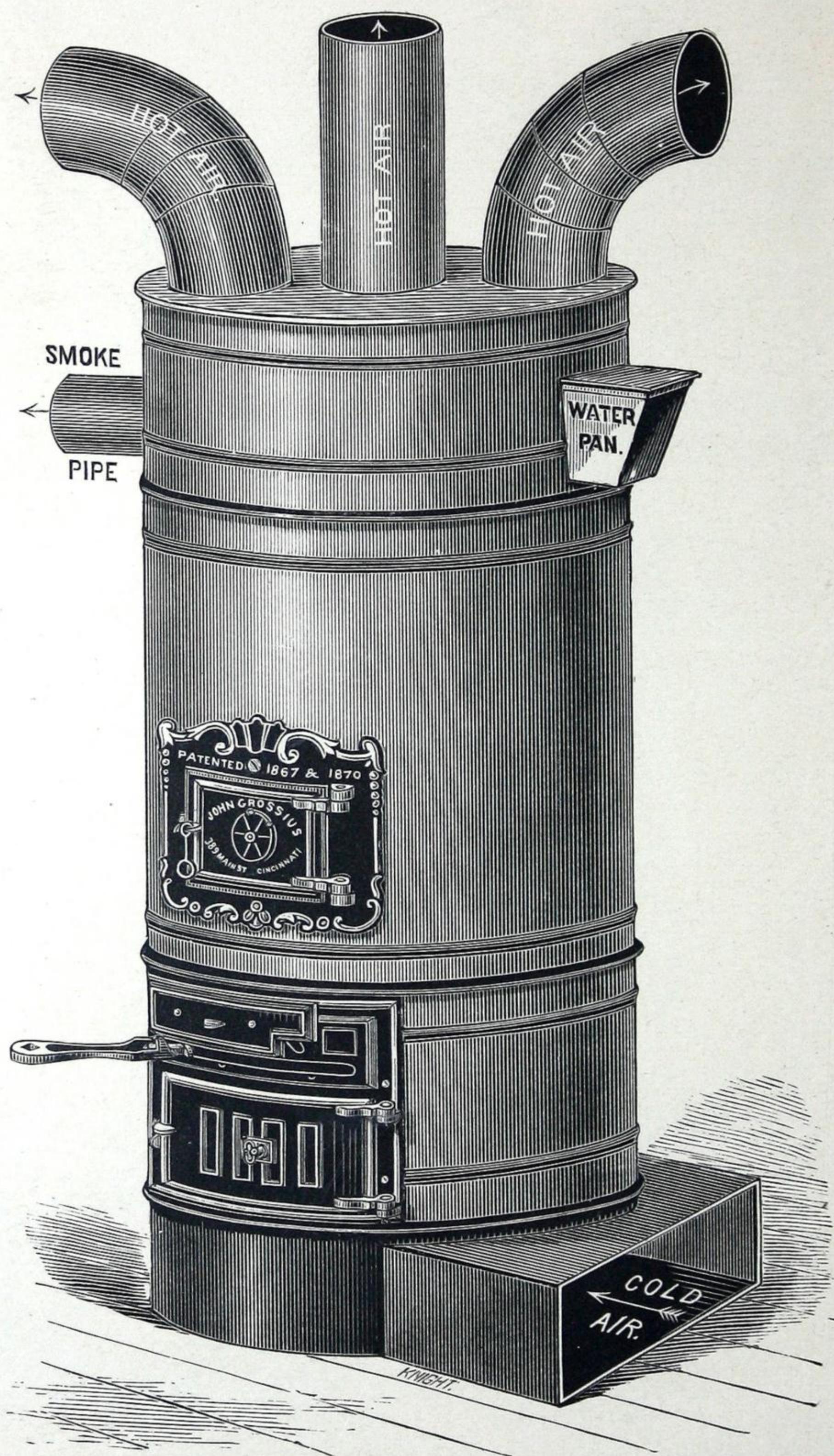
Sectional View of Warm Air Furnace, No. 1.

Capacity, 50,000 Cubic Feet, Price, \$200.00.



Sectional View of Warm Air Furnace, No. 2.

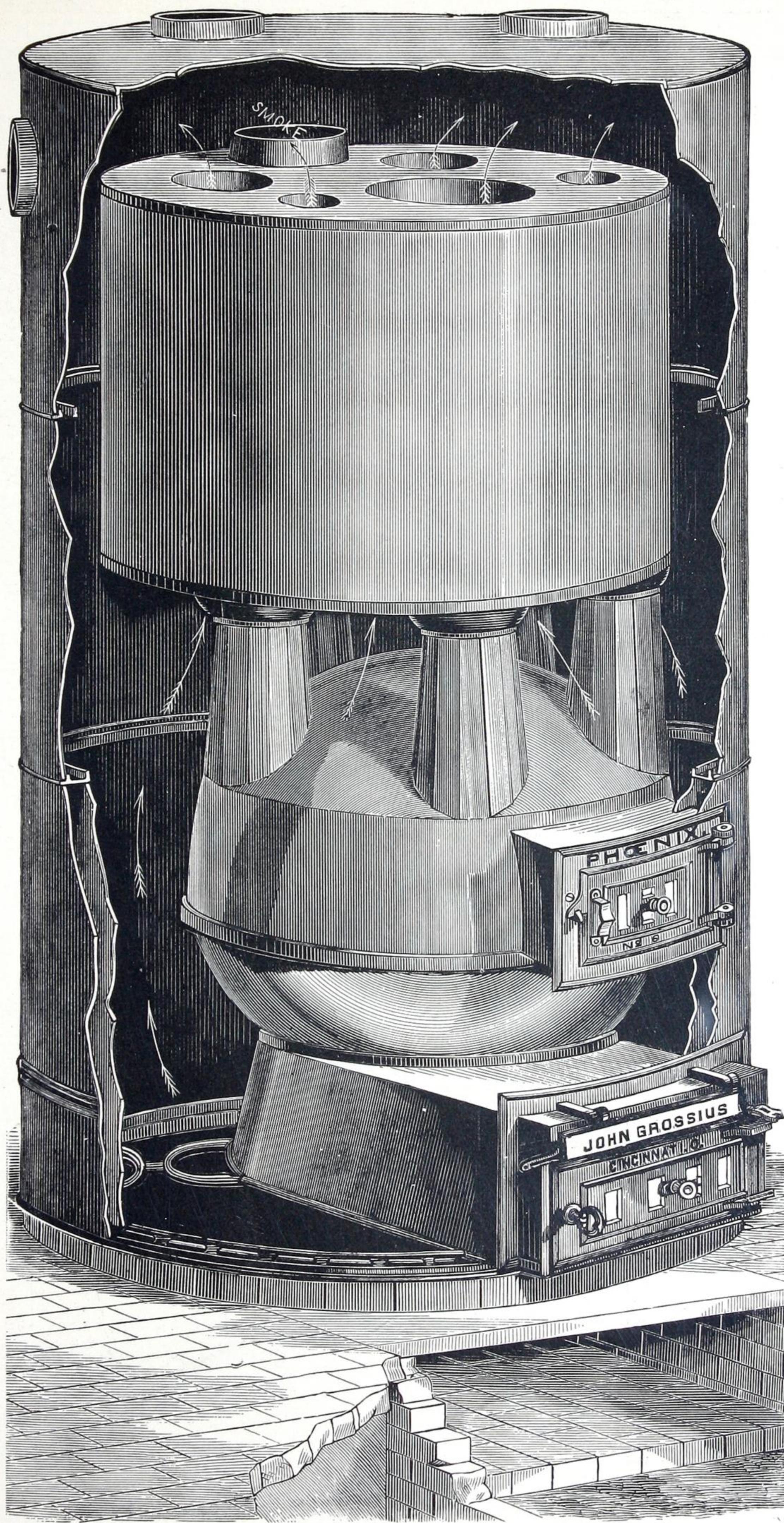
Capacity, 35,000 Cubic Feet, Price, \$175.00.



Outside View of Warm Air Furnace, No. 3.

Capacity, 10,000 Cubic Feet, Price, \$100.00.

PHOENIX.

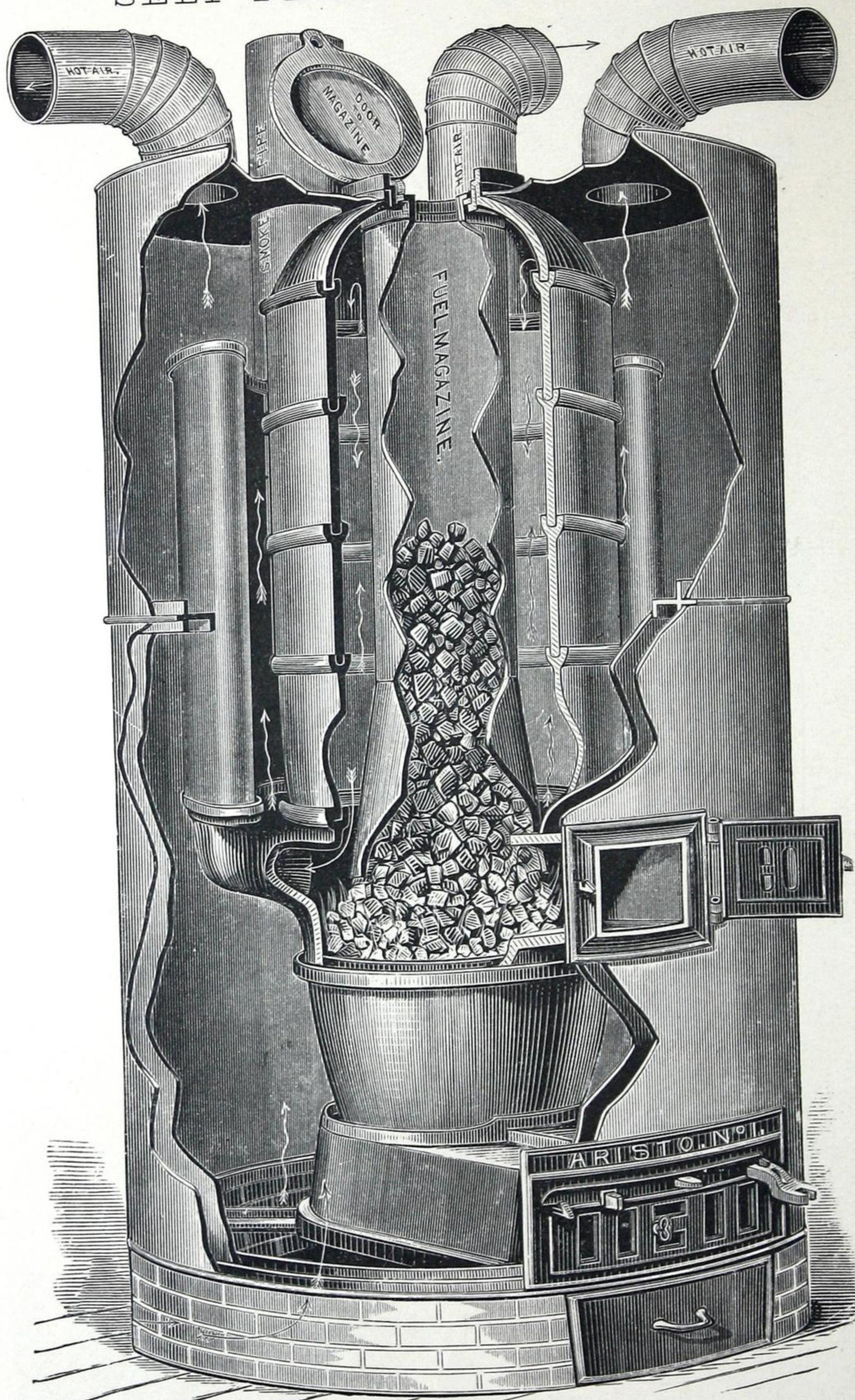


No. 6, Capacity, 70,000 Cubic Feet, Price, \$300.
" 5, " 40,000 " " 200.

No. 4, Capacity, 15,000 Cubic Feet, Price, \$150.
" 3, " 10,000 " " 100.

ARISTO.

SELF FEEDING FURNACE.



The best Furnace for Cleanliness, Comfort, Good Health; and one requiring the least care when properly regulated, is undoubtedly the ARISTO. It is constructed for, and may be used with or without a magazine.

No. 1 Furnace, capacity 85,000 Cubic Feet,	\$200.00.
" 2 " " 55,000 " "	800.00.

EXPLANATION

TO THE

Patent Warm Air Furnaces.

Illustrations on page 18, 19, 20, 21, 22, 23, 24, represent my Warm Air Furnaces, of which I make 18 sizes of different heating power, but all of the same construction.

The extent of radiating surface is larger than that of any other Furnace in use which can be seen at a glance.

The Pipes are so constructed as to render it impossible for them to choke up with soot or ashes, which, with the use of our soft coal, is a cause of universal and bitter complaint.

The Castings are made for durability, and no Iron has been spared in the construction of these Furnaces.

ATTENTION IS INVITED TO THE FIRE CHAMBER,

Made broad and not too deep, with a view to perfect consumption and greatest diffusion of heat. Every joint in these Furnaces is so put together, as to insure its safety from cracking, through expansion or contraction, and at the same time rendering impossible the escape of either gas or smoke. There is no confusion resulting from the use of dampers and patent regulators, the slides in the doors are all that are needed for the perfect regulation of the draught.



Cincinnati, June 18, 1868.

JOHN GROSSIUS, Esq.

Dear Sir:—I have used your smallest size "Patent Furnace" in my house one winter, and have no hesitancy in saying that it has given entire satisfaction; in ordinary cold weather it gives heat equal to three grate fires, does not smoke, and I am satisfied that it is a great saver of coal, as compared with a comparative heat from grate fire.

Yours, etc.,

JAMES C. CRANE,
Mt. Auburn.

Cincinnati, March 1, 1871.

JOHN GROSSIUS, Esq.

Dear Sir:—As you desire us to state the result of the use of your Warm Air Furnaces in the First Reformed Presbyterian Church of this city, we cheerfully say they have operated to our entire satisfaction; we have had no difficulty in warming our church on the coldest days of the past winter. They have a genial, pleasant and not too dry atmosphere throughout the Church. In fine, we will say we regard them, in point of efficiency and economy, all you represent them to be.

THOS. GIBSON, *President*,
H. McCULLUM, *Secretary.*

Cincinnati, May, 1871.

JOHN GROSSIUS, Esq.

Your Furnace which was put in my house has proved itself the best Heater I ever saw, on account of its durability, economy of fuel, and easy regulation, and I herewith recommend it to the public.

M. HART.

JOHN GROSSIUS, Esq.

The Furnace that you put into my residence has given complete satisfaction in every respect.

E. DOLE.

Cincinnati, May, 1871.

JOHN GROSSIUS, Esq.

Dear Sir:—The Furnaces you put in my new house on Elm street last fall, has given perfect satisfaction in every respect, and I can honestly assert that I would prefer your Furnace, as it is cheaper in original cost than any other of same size, and it gives more heat and better ventilation.

WM. STICHTENOTH.

JOHN GROSSIUS, Esq.

The "Patent Warm-Air Furnace," by which you replaced one of Bennett's has given me full satisfaction in all respects.

A. O. TYLOR.

JOHN GROSSIUS, Esq.

We should consider it an injustice to you as well as the public, by not recommending your "Patent Furnace." The one you put up for us has given us full satisfaction of its merits as a Heater, and we, therefore, gladly recommend it.

KIRCHNER & DEWALD.

JOHN GROSSIUS, Esq.

Cincinnati, June 1, 1871.

After using your "Patent Furnace" for two seasons, I will say that I am perfectly satisfied with it. I have not used as much coal as I had to with the other kind I had before, and the ventilation is all I can wish for. Any one being in want of a good economical Heater should not fail to try one of your Patent.

FRED. BODMANN.

The Trustees of the First Presbyterian Church of Wyoming purchased from John Grossius in 1870, one of his Heating Furnaces for the use of the church. It was used last winter and gave full and entire satisfaction, and we most cheerfully recommend it to the public as a good Furnace.

GEO. S. STEARNS, W. F. COLBURN, G. H. BURROWS, } Trustees.
C. S. WOODRUFF, SR., GEO. D. WINCHELL. }

JOHN GROSSIUS, Esq.

The Furnace called the Grossius "Patent Furnace," which you put up in my Factory in place of one of a different firm, has given perfect satisfaction. The one of the kind which was put up in my new factory proved itself the same as the first. I can in good faith, recommend it in regard to the heating qualities and economy of fuel, to any one that may have use for a Furnace.

MICHAEL ECKERT.

JOHN GROSSIUS, Esq.

Cincinnati, Nov. 25, 1873.

Sir:—In answer to your inquiry concerning the Furnace you placed in my house about two years since, I would say that it gives full satisfaction. It does not consume any more fuel than an ordinary grate, while its heating power is equal to four grates. It does better than you promised.

Respectfully,

JABEZ M. WATERS,
551 West Ninth Street.

224 LAUREL STREET, *Cincinnati, Nov. 25, 1873.*

JOHN GROSSIUS, Esq.

Your Furnaces placed in the Lincoln Park Presbyterian Church two years ago, have given entire satisfaction, being far superior to that formerly in use. They have proved economical, durable, easily managed, warm the Church quickly and supply the heated air in a pure state.

GEO. E. WALTON, M. D., } Trustees.
JOHN JOHNSON. }

JOHN GROSSIUS, Esq.

Miamisburg, Nov. 27, 1873.

Respected Sir:—It affords me pleasure to say, that I have used your Hot Air Furnace for several months, with entire satisfaction. My house has been thoroughly warmed with a heat of a most pleasant character. I cheerfully recommend the Furnace as one of the best in the market.

WM. HOFF.

JOHN GROSSIUS, Esq.

Cincinnati, November 29, 1873.

Dear Sir:—It gives me pleasure to recommend to the public, your "Warm Air Furnaces." The one you have put up in my father's house has given entire satisfaction. It warms every part of the house (containing 17 rooms) with ease, making no dust or smoke in the house.

Yours, &c.,

WM. PRICE,

Twenty-first Ward.

Cincinnati, Nov. 28, 1873.

JOHN GROSSIUS, Esq.

Early last fall I concluded to put a Furnace in my residence, No. 563 Court Street, and after examining the Furnaces of different manufacturers thoroughly, decided to take yours, and have since had various opportunities of testing the merits of the one you put up for me, which I am pleased to say, has given perfect satisfaction in all instances. It produces an abundance of moist, warm air, without a particle of dust or smoke coming through the registers, with a comparatively small amount of fuel. It is easy to manage, as it is simple in construction, and, therefore, can be repaired without much cost, in case it gets out of order. I do not hesitate to say that it is the most economical and easiest Furnace to manage that ever came to my notice, and can recommend it as such to any one desiring to purchase a good Furnace.

Yours Respectfully,

ROBERT BEATON.

I recommend "Mr. John Grossius' Heating Apparatus" as such which will prove as first-class.

REV. A. SCHWENNIGER,
Pastor St. Ludwig's Church.

Cincinnati, Dec. 4, 1873.

JOHN GROSSIUS, Esq.

Dear Sir:—The Furnace you put in my residence No. 17 Jane street, has given full satisfaction, and is all that you claim it to be. I can cheerfully recommend it to those wishing to avail themselves of a good Furnace.

Yours Respectfully,

RUDOLPH RHEINBOLDT.

JOHN GROSSIUS, Esq.

Cincinnati, December 4, 1873.

Dear Sir:—It affords me much pleasure to bear testimony to the great satisfaction I and my family have experienced from the comfortable and agreeable temperature that has pervaded my dwelling since the introduction of your excellent Furnace. It is easily managed and very cleanly, and I feel thankful that I am free from the constant trouble and annoyance, which the one it supplants, gave me. I remain,

Yours Truly,

DANIEL WOLF,
50 W. Eighth St.

JOHN GROSSIUS, Esq.

Cincinnati, December, 1873.

Dear Sir:—We take pleasure in testifying to the merits of your "Patent Warm Air Furnaces," which you put up for us in our Temple south-east corner of Eighth and Plum streets, in place of Furnaces of another make, which gave us much trouble, continually getting out of repair, and giving no satisfaction whatever. After using your furnaces all last winter (which was unusually severe) with the utmost satisfaction, we do not hesitate to give them the highest recommendation in our power. They stand high in rank as an economizer of fuel, their construction is simple and are easy to manage. The warm air produced is of an excellent quality and abundant, being pleasant and mild, and free from all obnoxious gases, smoke or dust. We can cheerfully recommend them to all wishing to avail themselves of a good Furnace as it is no doubt the best in the market.

ELIAS BLOCK,
JACOB L. MACK. } Committee.

JOHN GROSSIUS, Esq.

Dear Sir:—In reply to your request as to my opinion of your Furnace I will say, that it has given entire satisfaction, and also find it durable, economical and safe, and can recommend it as such to any one that wishes to introduce them either in Dwellings, Stores or Churches.

Yours Respectfully,

F. MILLER, 62 & 64 East Second St.

Cincinnati, Dec. 6, 1873.

JOHN GROSSIUS, Esq.

Dear Sir:—The Patent Hot Air Furnace furnished us by you, has given entire satisfaction, and we find it to be all you represented. We can cheerfully recommend it to any parties desiring a good Furnace. We are,

Very Truly Yours,

SNIDER & HOOLE.

Cincinnati, December 15, 1873.

JOHN GROSSIUS, Esq.

Dear Sir:—I have had in use one of your Warm Air Furnaces for three winters, in my residence in Avondale. The building not having been constructed so as to accomodate it, there was some trouble in getting a good draught. That has been secured, and I take pleasure in saying to you, that it operates very satisfactorily, it supplies a healthy atmosphere, heats up rapidly, and does not blacken the walls, a complaint so general against Furnaces. I burn coal, coke and at times wood, and find that it consumes much less during the season than grates. I can say that it does all you recommend it to do.

Respectfully Yours,

ROBT. A. JOHNSON.

JOHN GROSSIUS, Esq.

I can fully recommend your "Patent Warm Air Furnaces." After more than six years use of a Lotze Furnace in my residence, I replaced it with one of yours, saving more than half the fuel, and having no trouble with smoke. At my recommendation four of my friends used your Furnace, giving them full satisfaction. You may refer any person to me for further information.

S. M. BARRETT,

Of Barrett Dole & Co., Waters & Barrett, T. H. Anderson & Co.

ST. BERNARD, Cincinnati, Aug. 9, 1875.

We have found no difficulty in warming our Church the coldest of weather. Your Heater gives the most complete satisfaction, warming and ventilating our church in a very acceptable manner; during our severe cold last winter our Church could be warmed, in a very short time, to be very comfortable. We must in faith say that Mr. John Grossius' Heaters are found to be the best in regard to heating, and use but little fuel. We therefore heartily recommend his Furnace.

REV. P. DIONYS,

Pastor of St. Clements Church.

ANDREW ATTERMAYER,

F. H. W. ROTT,

J. H. SANNING,

HENRY ATTERMAYER,

VALENTIN ECKERT.

JOHN GROSSIUS, Esq.

This is to certify, that the Ventilating and Hot Air Furnace walled up by you, gives full satisfaction; it by far exceeds the one I had torn out, I and my family have experienced from the comfortable and agreeable temperature that has pervaded my dwelling since the introduction of your excellent Furnace. It is easily managed and very clean, and there is but one half the fuel used in warming up the house that there was the time I had the old Furnace.

Respectfully Yours,

CRIST. MOEHRLEIN.

We, the undersigned, Committee of St. Anthony's Church, held a general meeting of the Congregation, in which meeting there was said and approved that the Furnace John Grossius put up in our Church, has rendered full satisfaction.

We therefore heartily recommend to all Churches that are in need of such a Furnace,—must say that John Grossius' is the best; and Committees of other Churches are always welcome to see ours.

REV. G. ULING, (Pastor,) G. B. SHULTE,

GEO. OVERBECK, J. H. LUHN,

J. ANTON LANGE, THEO. SHOEMAKER.

CONVENT OF ST. FRANCIS, OLDENBURG, FRANKLIN Co., IND.

March 13, 1875.

JOHN GROSSIUS, Esq.

The six Hot Air Furnaces you put up in our Academy, comprising thirty rooms and two large halls, give entire satisfaction in every desirable manner, particularly in regard to their heat, promptness of action, and their economy in fuel. They heat the house thoroughly and evenly during the coldest day, from basement to attic, and furnish a constant and copious supply of warm air, remarkable for its purity and moistness. The heat is, moreover, easily controlled and graduated to any degree of Fahrenheit from 65 to 67.

We therefore heartily and most cordially recommend your Furnace to all who wish to render a public or private building a comfortable abode during the severe winter.

SISTER MICHAELA.

Cincinnati, April 1, 1876.

JOHN GROSSIUS, Esq.

Sir:—It affords me great pleasure to praise the Hot-Air Furnaces put up in the St. Nicholas Hotel and my private dwelling on Seventh Street. They have given perfect satisfaction, and freely acknowledge that, after having taken out my old Furnaces, and, replaced yours instead, I find them more agreeable in temperature throughout the buildings also in the economy of fuel and labor-saving qualities. I am satisfied that your Heaters are superior to any others in use, and cheerfully recommend them to any one in want of a perfect Heating Apparatus.

Very truly yours,

B. ROTH & SON.

Cincinnati, May 30, 1876.

JOHN GROSSIUS, Esq.

We take pleasure in testifying to the merits of your "Patent Warm Air Furnaces," put up in the St. Edwards Church in place of other Furnaces, which gave us more trouble and not sufficient heat to warm the Church. They are economical in fuel, and their heat is equally diffused throughout the building, producing a comfortable heat in a short time. We recommend them as unsurpassed for heating purposes.

JAMES McDONOUGH,
MICHAEL HOHN,
WM. CAULDON. } Committee on Heating.

WESTERN METHODIST PAPER, *Memphis Tenn.*

Mr. Editor:—Some days since I held my first quarterly meeting at Bolivar, in our new Church. I would not be partial, but must say I think it the prettiest, most shapely, most finished Church I have seen in the Memphis Conference.

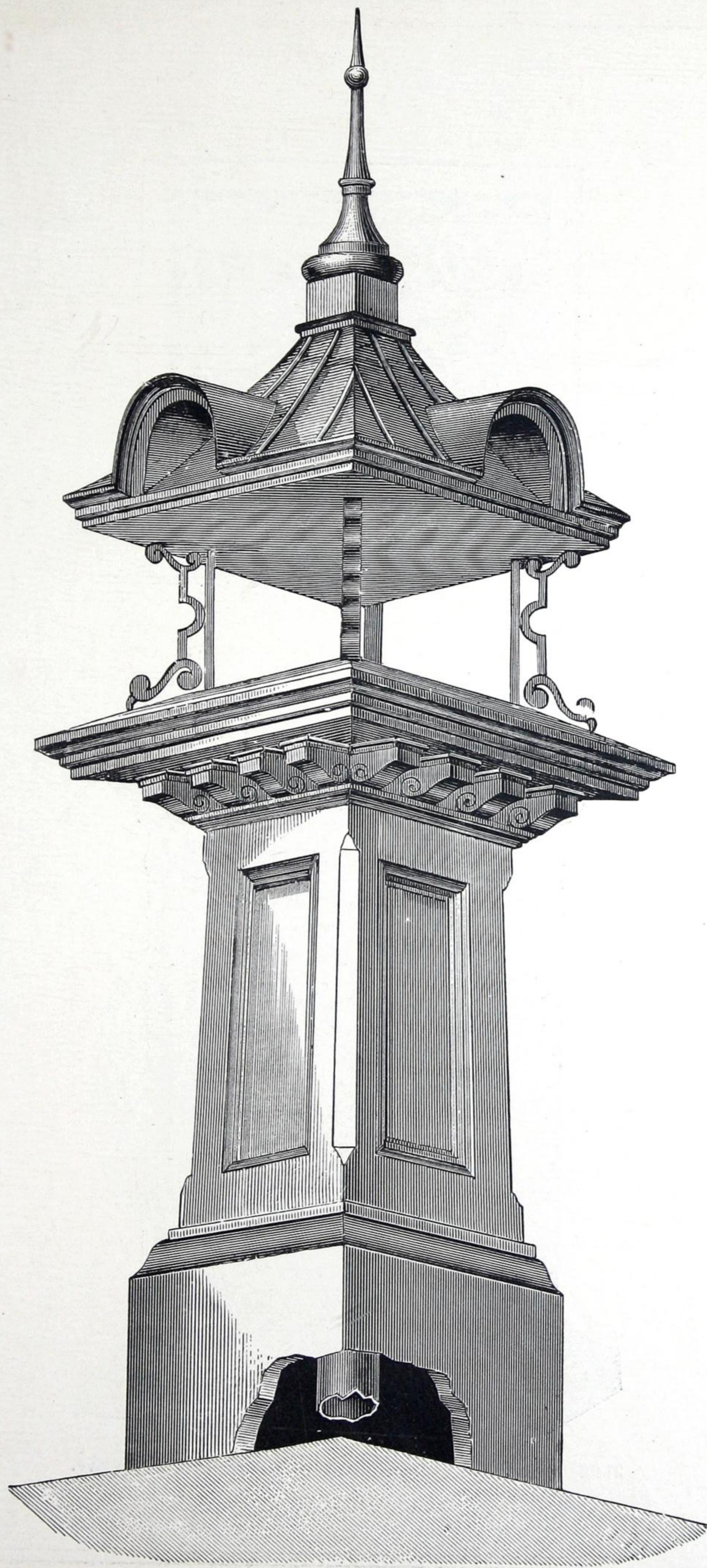
The design of the building is from the "Manual of Architecture," by our worthy brother, the Rev. W. M. Patterson. It is a two-story frame, exceedingly strong, auditorium commodius, easy to hear and speak in, and is 36 feet by 58 in the clear, with ceiling 16 and 20 feet. Sunday School-room 36 feet by 43 in the clear, ceiling 10 feet. Class-room, 15 feet by 24. Pastor's study, 12 feet by 15, thoroughly furnished with carpet, chairs, sofa, pictures, etc., too numerous to mention. The Sunday School-room and auditorium are heated, and very quickly, with two Furnaces from John Grossius, Cincinnati. All the rooms can be warmed in a few minutes. Ventilation perfect, by special arrangement for that purpose in each room, aiding to keep warm in winter, and cool in summer.

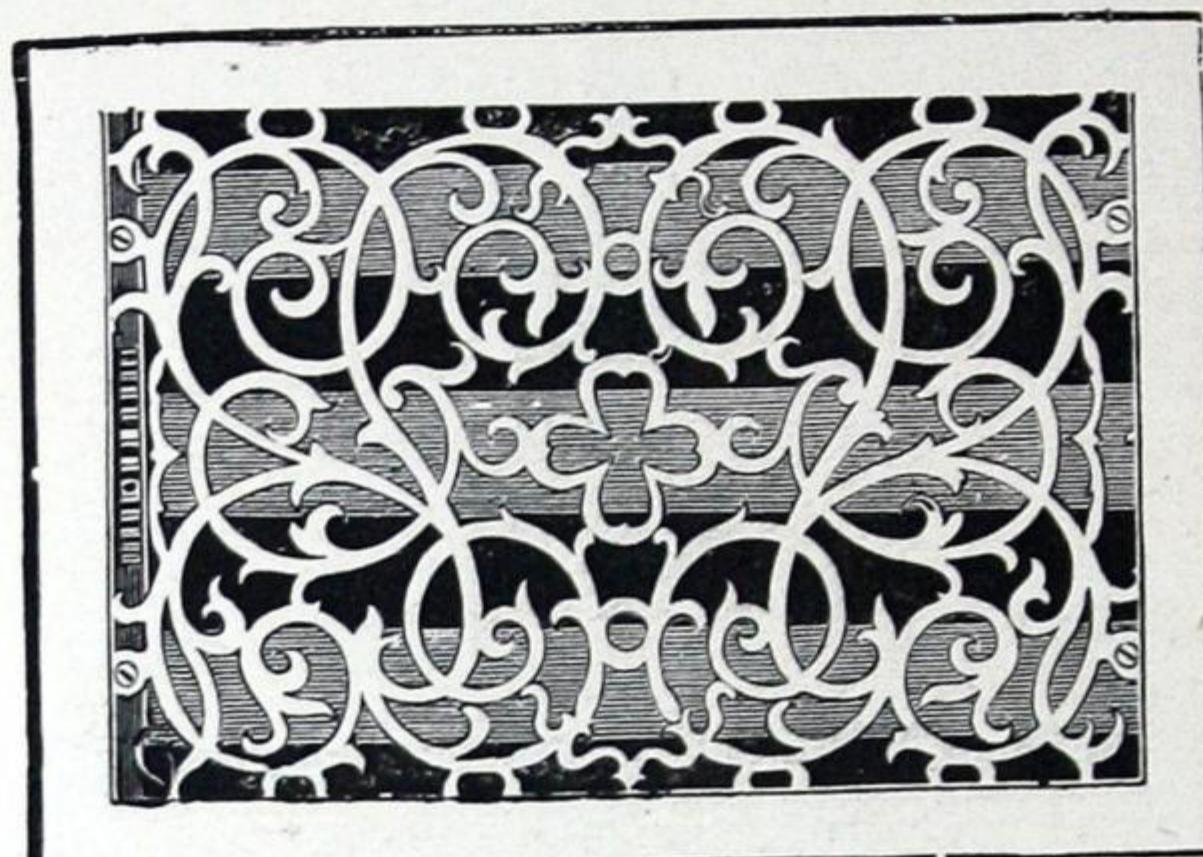
REFERENCES.

Messrs. R. W. Carroll & Co.,	117 W. Fourth Street, Cincinnati, O.
First Reformed Presbyterian Church,	"
Lincoln Park Church,	"
Ferd. Bodman, Esq.,	Mount Auburn,
Jas. C. Crane, Esq.,	Mount Auburn,
Chr. Conradi, Esq.,	Clifton Avenue,
Mrs. DeLand,	Clifton,
Jacob Dewald, Esq.,	858 Central Avenue,
B. Dannehold, Esq.,	99 W. Fifth Street,
Jason Evans, Esq.,	Mount Auburn,
Mich. Eckert, Esq.,	228 and 230 Main Street,
John Gerke, Esq.,	Gest Street,
F. L. Haffner, Esq.,	Camp Washington,
Math. Harth, Esq.,	East Walnut Hills,
Messrs. Jos. Harth & Co.,	380 and 382 Main Street,
W. Herlein, Esq.,	Bald Hill,
Robt. A. Johnston, Esq.,	East Walnut Hills,
Julius Lang, of Lang & Warner,	"
F. Miller, Esq.,	62 and 64 E. Second Street,
Messrs. Pape Bros. & Kuegemann,	139, 141 & 143 Main St.,
Jas. Powell, Esq.,	544 W. Eighth Street,
Rud. Rheinboldt,	604 Vine Street,
Messrs. H. Rasche & Son,	Plum near Mohawk Bridge,
Messrs. Sheu & List,	669 Elm Street,
W. Stichtenoth, Esq.,	373 Elm Street,
J. L. Thoms, Esq.,	Mount Auburn,
Water Works Office,	"
John Wynne, Esq.,	"
F. D. S Whetstone, Esq.,	Mount Auburn,
Dan. Wolff, Esq.,	50 W. Eighth Street,
Messrs. J. Walker & Co.,	391 Sycamore,
Dr. A. Zipperlen,	23 Webster Street,
Public School Building,	Walnut Hills,
Asbury Chapel,	"
York Street M. E. Church,	"
Mount Auburn Presbyterian Church,	Mount Auburn,
Presbyterian Church,	Avondale,
Grace Church,	Avondale,
M. E. Church,	Walnut Hills,
Baptist Church,	Columbia,
C. C. Gould,	"
H. Thane Miller,	"
Avondale School House,	"
F. C. Bennett,	"
Central Presbyterian Church,	"
United Brethren Church,	"
J. B. Chickering,	"
E. Woodruff,	"
John Gilpin,	"
Chamberlain & Co.,	"
Luther Parker,	Mt. Auburn,
John F. Torrence,	94 Ninth Street,
St. Edward's Church,	"
German Protestant,	St. Peter's Church,

A. B. Couston, Avondale,	Cincinnati, O.
C. F. Clayer, S. E. Cor. John and Clinton,	"
John Roth, Fourth and Race,	"
A. O. Tylor, Avondale,	"
German Protestant Church, Columbus, O.	
German Protestant Church, Piqua, O.	
St. John's Church, Louisburg, Ky.	
First Presbyterian Church, Wyoming, O.	
M. E. Church, Milford, O.	
Messrs. Byers & Bird, Mount Vernon, O.	
Messrs. Brandriff & Roberts, Fort Wayne, Ind.	
Messrs. C. H. DeYarmett & Bros., Cambridge, O.	
Messrs. Dorst & Renk, Zaleski, O.	
John Eckert, Esq., Madison, Ind.	
Messrs. Johnson & Glover, Jacksonville, Ills.	
W. L. King, Esq., Mount Vernon, O.	
W. McCormack, Esq., Zanesville, O.	
C. Riessner, Esq., Washington, D. C.	
Phillip Kromer, Columbus, O.	
J. W. Sohn, Esq., Waverly, O.	
John Shum, Esq., Washington C. H., O.	
C. E. Stifel, Esq., Wheeling, W. Va.	
J. L. Taylor, Esq., Cambridge, O.	
Jacob Voegtle, Esq., Indianapolis, Ind.	
Saml. McPherson, Esq., Springfield, O.	
Wm. Hoff, Esq., Miamisburg, O.	
R. Thompson, Esq., Springfield, O.	
Harker & Ihrig, Esq., Columbus, O.	
Messrs. R. D. Stevens & Bro., Logansport, Ind.	
Jos. Weaver, Esq., Miamisburg, O.	
A. Lybrand, Esq., Delaware, O.	
O. B. Williams, Esq., Marysville, O.	
H. Spaeth, Esq., Aurora, Ind.	
M. E. Church, Sidney, O.	
Episcopal Church, Portsmouth, O.	
Biglow M. E. Church, "	
Union School Board, Sidney, O.	
Public School Building, Decatur, Ills.	
M. E. Trinity Church, Evansville, Ind.	
M. E. Church, Loveland, O.	
M. E. Church, Hamilton, O.	
Ovid Butler, Indianapolis, Ind.	
R. L. McQuatt & Co., Indianapolis, Ind.	
John Scott & Son, Terre Haute, Ind.	
J. B. & D. J. Flemming, Xenia, O.	
J. L. Tatout, Indianapolis, Ind.	
Wm. McClintonck, Denver City, Col.	
First Baptist Church, Covington, Ky.	
Blemker, Tillmann & Co., Evansville, Ind.	
German M. E. Church, Covington, O.	
John T. Peck, Gardner, Ills.	
Presbyterian Church, Washington, O.	
High St. M. E. Church, Springfield, O.	
M. E. Church, Jackson, O.	
M. E. Grace Church, Newport, Ky.	
Thom. B. Richards, "	
Wm. M. Bush, "	

REGISTERS AND VENTILATORS.

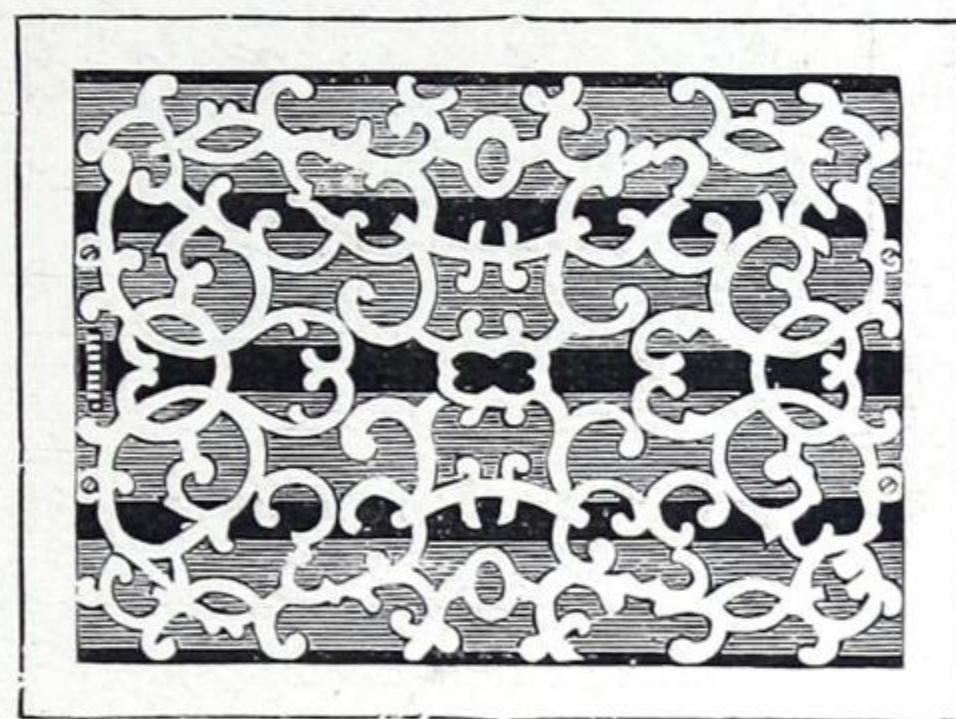




12x19 Vertical Wheel Register.



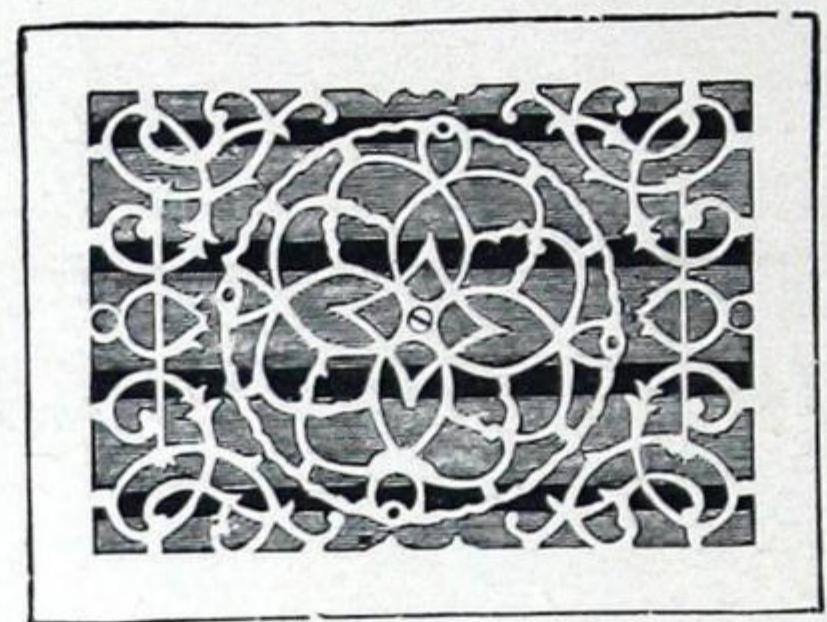
21x16 Ornamental Pedestal Register, Marble Top, with Valve.



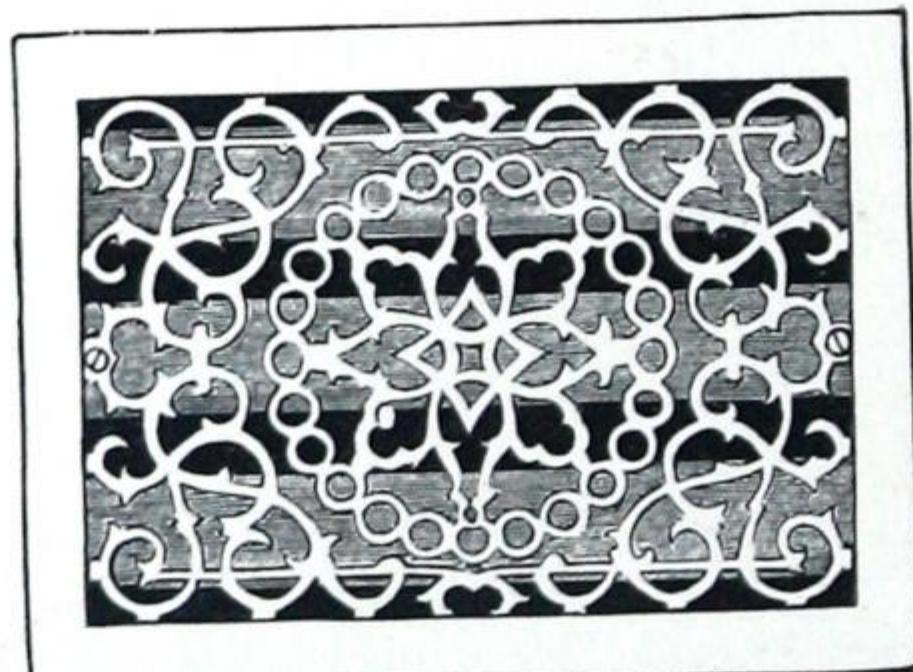
10x14 Vertical Wheel Register.



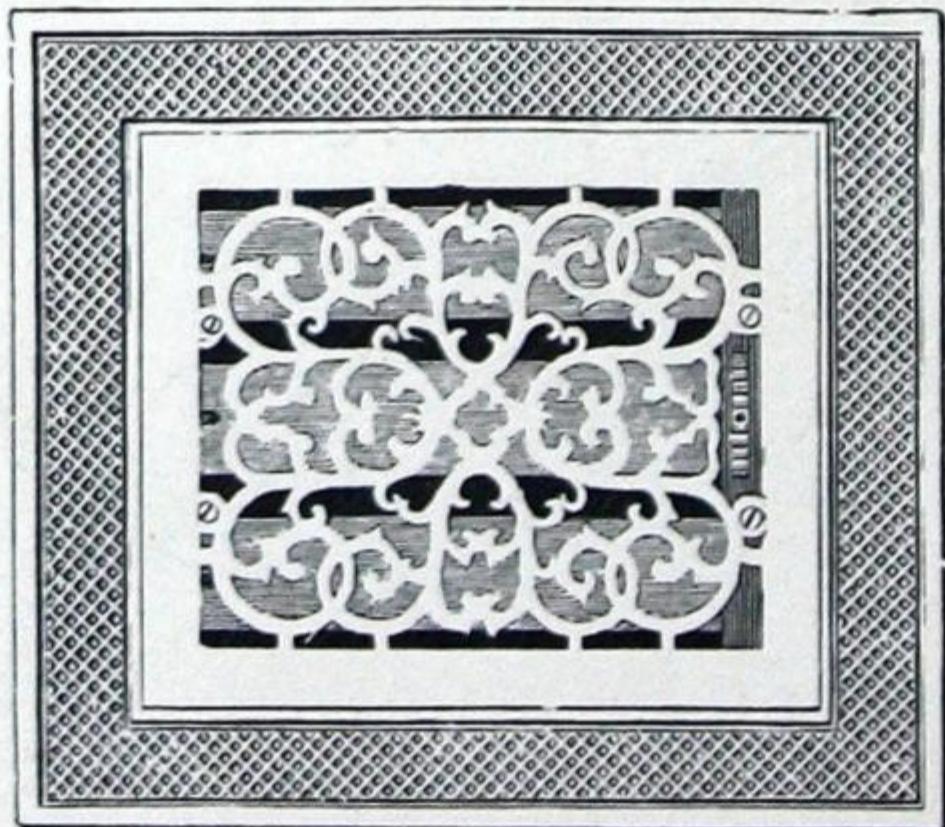
Two-Feet Circular Register.



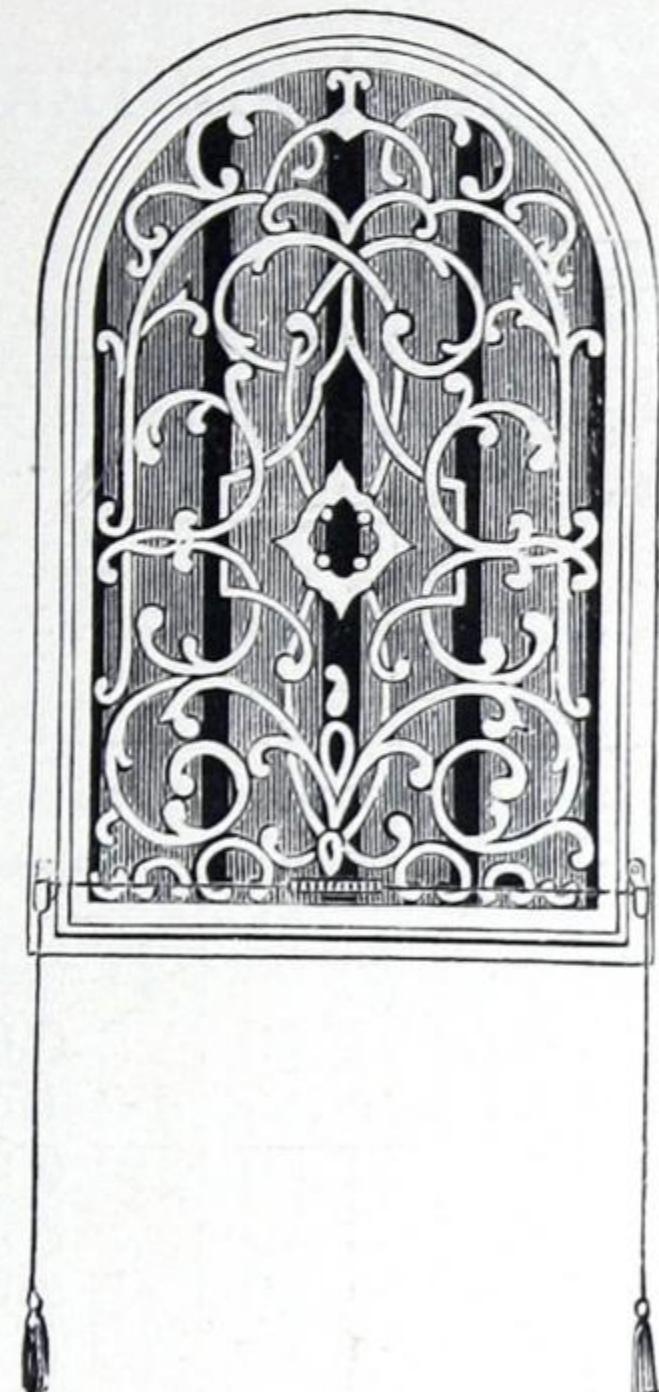
7x10 Side Wall Register.



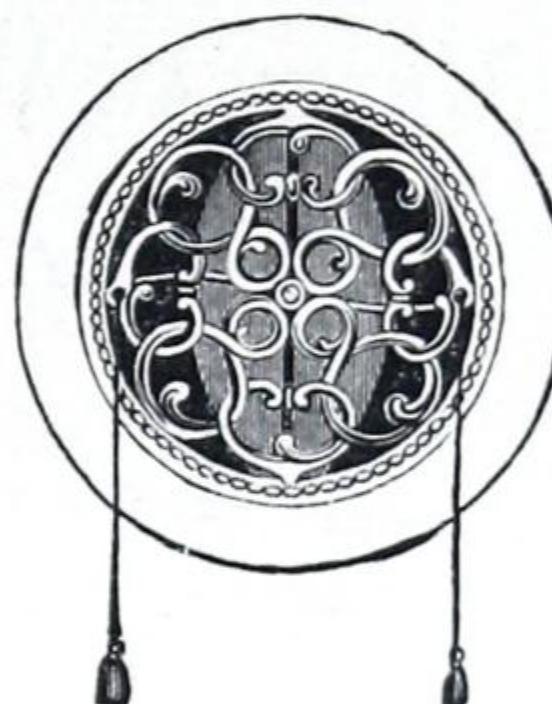
8x12 Side Wall Register.



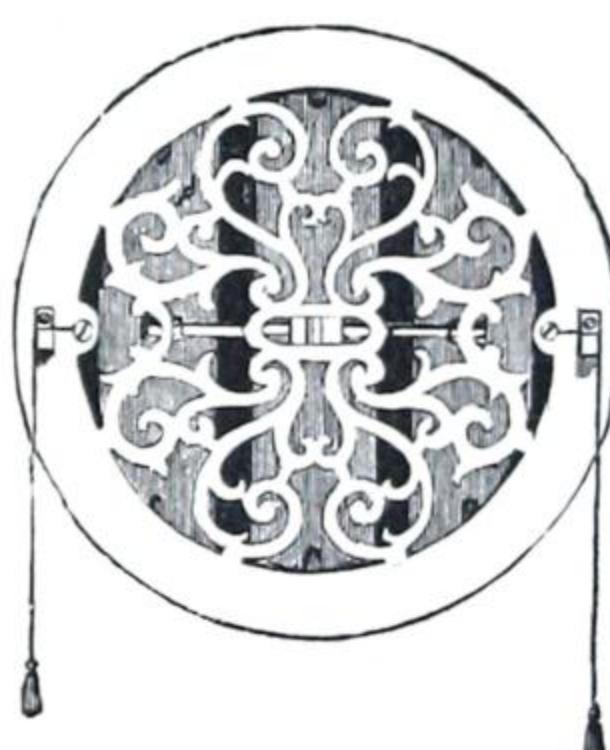
8x10 Side Wall Register.



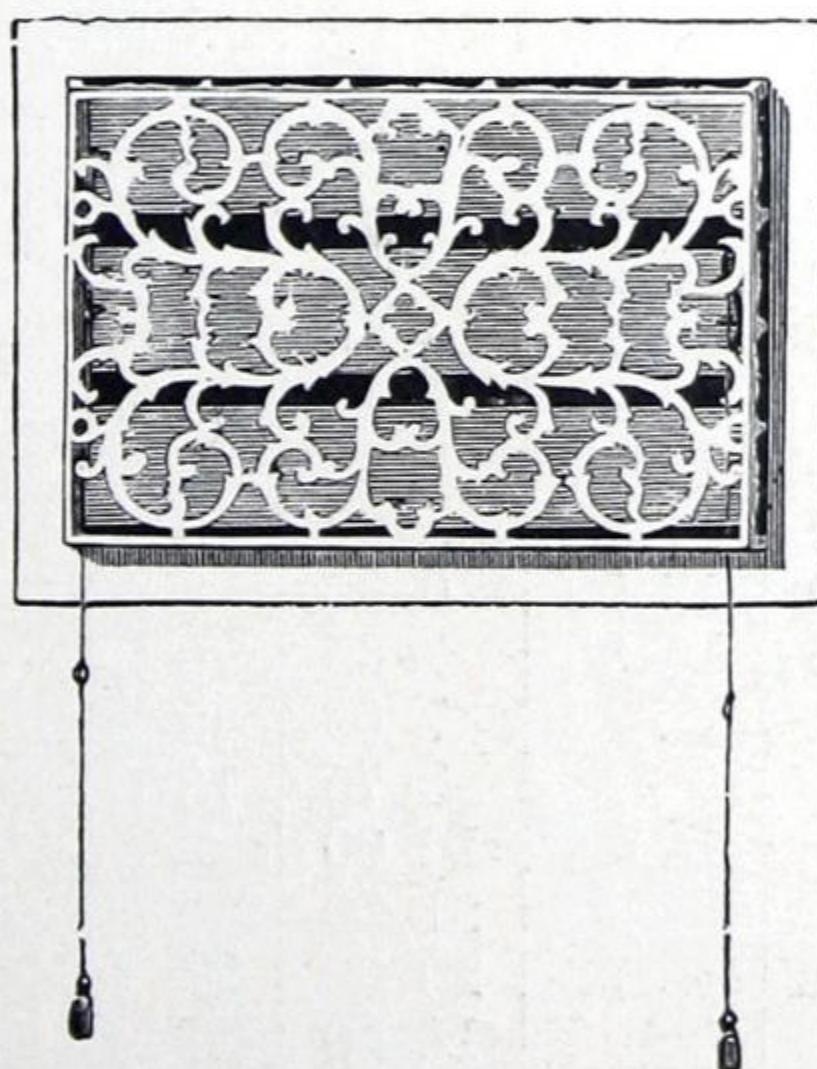
8x14 Circular Top
Ventilator.



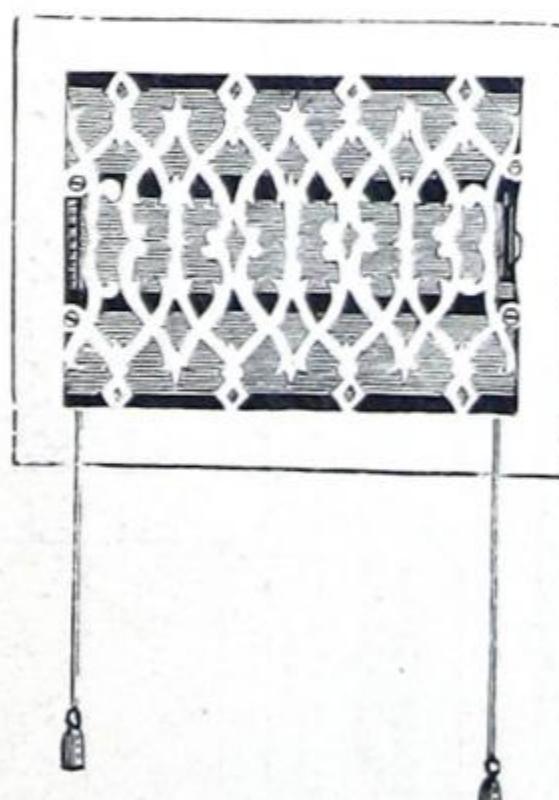
8-inch Side Wall
Ventilator.



9-inch Side Wall
Ventilator.



8x12 Ventilator.



6x8 Ventilator.

PATENT

VERTICAL WHEEL HOT AIR REGISTERS AND VENTILATORS.

In ordering Ventilators, if wanted to stand end-wise, or if to go on ceiling directly overhead, the fact should be stated.

SIZE OF OPENING.	REGISTERS.						FACES.	
	Black or White Japanned.	White Enameled.	Gold Bronze.	Nickel Plated.	Electro- Copper Bronzed.	Without Valve.	White Enameled.	Black or White Japanned.
4 1/2 x 6 1/2	\$1 30	\$2 75	\$1 80	\$2 95	\$2 95	\$0 90	\$1 90	\$0 46
4 x 8	1 50	3 00	2 00	3 25	3 25	1 00	2 00	0 48
4 x 10	1 65	3 25	2 18	3 50	3 50	1 15	2 10	0 50
4 x 15	2 30	4 00	2 85	4 25	4 25	1 60	2 60	0 75
4 x 18	2 50	4 50	3 10	4 80	4 80	1 75	2 85	0 85
6 x 8	1 80	3 50	2 30	3 75	3 75	1 20	2 30	0 62
6 x 9	1 95	3 65	2 50	3 95	3 95	1 30	2 40	0 66
6 x 10	2 10	3 80	2 65	4 10	4 10	1 45	2 50	0 70
6 x 14	2 70	4 60	3 25	5 00	5 00	1 95	2 80	0 90
6 x 16	3 00	5 00	3 60	5 40	5 40	2 10	3 20	1 10
6 x 18	3 40	5 45	4 10	5 85	5 85	2 40	3 40	1 35
6 x 24	6 36	9 50	7 40					2 15
7 x 10	2 30	4 25	2 90	4 50	4 50	1 60	2 60	0 75
8 x 8	2 25	4 20	2 80	4 50	4 50	1 50	2 75	0 80
8 x 10	2 50	4 50	3 10	4 85	4 85	1 75	2 85	0 85
8 x 12	2 80	4 80	3 45	5 20	5 20	2 00	3 00	1 00
8 x 15	3 60	5 75	4 35	6 15	6 15	2 55	3 60	1 50
8 x 18	4 20	6 50	5 00	6 95	6 95	3 05	4 05	1 75
9 x 9	2 65	4 65	3 25	5 00	5 00	1 85	3 00	1 00
9 x 12	3 30	5 30	4 00	5 70	5 70	2 35	3 25	1 25
9 x 14	3 60	5 75	4 35	6 20	6 20	2 55	3 65	1 50
10 x 10	3 25	5 25	3 90	5 65	5 65	2 30	3 20	1 20
10 x 12	3 60	5 75	4 35	6 15	6 15	2 55	3 00	1 50
10 x 14	4 00	6 20	4 80	6 65	6 65	2 86	4 00	1 75
10 x 16	4 50	6 75	5 30	7 25	7 25	3 25	4 30	2 00
10 1/2 x 16 1/2	4 85	7 10	5 70	7 60	7 60	3 50	4 35	2 10
12 x 12	4 20	6 50	5 00	6 95	6 95	3 05	4 05	1 75
12 x 15	5 00	7 40	5 85	7 90	7 90	3 70	4 40	2 00
12 x 19	6 00	8 50	6 90	9 10	9 10	4 50	5 00	2 50
14 x 22	8 00	11 25	9 00	12 25	12 25	5 50	6 35	3 10
15 x 25	10 00	14 20	12 00	15 20	15 20	7 20	9 00	4 75
16 x 16	7 50	10 25	8 50	11 00	11 00	5 00	5 75	3 00
16 x 20	8 50	11 50	9 40	12 50	12 50	6 30	7 00	4 00
16 x 24	10 50	14 75	12 50	15 85	15 85	7 65	9 25	5 00
20 x 20	10 50	14 75	12 50			7 65	9 25	5 00
20 x 26	13 50	20 09	15 50			9 75	13 00	6 00
21 x 29	17 00					12 00		7 00
27 x 27	30 00					21 00		11 50
27 x 38	28 00					20 00		12 00
30 x 30	26 00					18 50		11 25
							Black Face, extra heavy.	
							6x 8, 1.10 8x12 1.70 10x14 2.50 10x16 3.25	

PATENT

VERTICAL WHEEL HOT AIR REGISTERS AND VENTILATORS.

In ordering Ventilators, if wanted to stand end-wise, or if to go on ceiling directly overhead, the fact should be stated.

SIZE OF OPENING.	VENTS.		IRON BORDER FRAMES.				
	White or Black for Cords.	White Enameled.	Electro- Copper Bronzed.	Nickel Plated.	White Enameled.	Gold Bronzed.	Black Japanned.
4 $\frac{1}{2}$ x 6 $\frac{1}{2}$	\$1 40	\$2 85	\$	\$	\$	\$	\$
4 x 8	1 60	3 10					
4 x 10	1 75	3 35					
4 x 15	2 40	4 10					
4 x 18	2 62	4 62					
6 x 8	1 90	3 60	2 80	2 80	2 50	1 00	0 80
6 x 9	2 05	3 75	2 90	2 90	2 60	1 10	0 90
6 x 10	2 20	3 90	3 00	3 00	2 70	1 20	1 00
6 x 14	2 80	4 70	3 40	3 40	3 10	1 50	1 20
6 x 16	3 10	5 12					
6 x 18	3 52	5 55	3 80	3 80	3 45	1 75	1 40
6 x 24							
7 x 10	2 40	4 35	3 40	3 40	3 05	1 30	1 10
8 x 8	2 35	4 30	3 30	3 30	3 00	1 30	1 05
8 x 10	2 62	4 62	3 50	3 50	3 15	1 40	1 15
8 x 12	2 92	4 92	3 60	3 60	3 25	1 50	1 25
8 x 15	3 72	5 87	4 00	4 00	3 60	1 80	1 45
8 x 18	4 32	6 65	4 40	4 40	4 00	2 00	1 65
9 x 9	2 75	4 75	3 50	3 50	3 15	1 40	1 15
9 x 12	3 42	5 42	3 70	3 70	3 35	1 65	1 30
9 x 14	3 72	5 87	3 90	3 90	3 55	1 76	1 40
10 x 10	3 37	5 37	3 65	3 65	3 30	1 60	1 30
10 x 12	3 72	5 87	4 00	4 00	3 60	1 75	1 45
10 x 14	4 12	6 32	4 15	4 15	3 75	1 95	1 55
10 x 16	4 65	6 90	4 35	4 35	3 90	2 12	1 65
10 $\frac{1}{2}$ x 16 $\frac{1}{2}$	5 00	7 25	4 45	4 45	4 00	2 18	1 75
12 x 12	4 35	6 65	4 30	4 30	3 90	2 00	1 60
12 x 15	5 15	7 55	4 60	4 60	4 15	2 12	1 75
12 x 19	6 15	8 65	5 40	5 40	4 80	2 75	2 30
14 x 22	8 15	11 50	7 25	7 25	6 25	3 50	3 00
15 x 25	10 25	14 46	9 40	9 40	8 35	4 75	4 15
16 x 16	7 65	10 40	6 65	6 65	5 75	3 50	3 00
16 x 20	8 70	11 70	7 75	7 75	6 75	4 25	3 75
16 x 24	10 75	15 00	9 75	9 75	8 60	5 00	4 35
20 x 20	10 75	15 00			8 60	5 00	4 35
20 x 26	13 75	20 25			12 00	6 25	5 45
21 x 29							6 00
27 x 27							7 00
27 x 38							8 00
30 x 30							7 00

PATENT

ANTI-FRICTION SLIDE-CENTRE ROUND REGISTERS
AND VENTILATORS.

SIZE OF OPENING.	REGISTERS.					FACES.	
	Black Japanned.	White Enameled.	Gold Bronzed.	Nickel Plated Copper Bronzed.	Without Valves.	White Enameled.	Black or White Japanned.
6 in.	\$1 30	\$3 00	\$1 80	\$3 25	\$0 90	\$2 20	\$0 50
7 "	1 50	3 20	2 00	3 50	1 00	2 30	0 60
8 "	1 80	3 50	2 25	3 80	1 15	2 35	0 65
9 "	2 00	4 00	2 55	4 35	1 30	2 75	0 75
10 "	2 50	4 50	3 10	4 90	1 55	2 90	0 90
12 "	3 30	5 50	4 00	5 95	2 00	3 40	1 20
14 "	4 50	6 75	5 20	7 25	2 55	3 90	1 65
16 "	5 75	8 25	6 50	8 80	3 40	4 70	2 20
18 "	7 50	10 00	8 30	10 60	4 25	5 25	2 75
20 "	9 00	12 00	10 00	12 70	5 75	6 25	3 25
24 "	12 00	16 00	13 50		8 50	9 00	5 00

SIZE OF OPENING.	VENTS.		IRON BORDERS.			
	White or Black for Cords.	White Enameled	Nickel Plated Copper Bronzed.	White Enameled.	Gold Bronzed.	Black Japanned.
6 in.	\$1 40	\$3 10	\$2 70	\$2 45	\$0 95	\$0 75
7 "	1 60	3 30	2 90	2 60	1 05	0 85
8 "	1 90	3 60	3 05	2 75	1 20	1 00
9 "	2 12	4 12	3 35	3 00	1 35	1 10
10 "	2 62	4 62	3 70	3 30	1 60	1 30
12 "	3 45	5 65	4 15	3 70	1 90	1 55
14 "	4 65	6 90	4 70	4 20	2 35	1 95
16 "	5 95	8 45	5 55	5 00	3 00	2 50
18 "	7 75	10 25	6 60	6 00	3 80	3 25
20 "	9 30	12 30	8 00	7 25	4 90	4 25
24 "	12 50	16 50			6 50	5 50

ROUND GRATINGS,

Black Japanned.

Very Heavy.

No Valves.

Size.	Gratings.	Borders.
30 in.	\$ 9 00	\$ 8 00
36 "	13 50	13 00
48 "	30 00	

ORNAMENTAL PEDESTAL REGISTERS,

FOR HALLS, Etc.

With Valves, White Marble Tops, O. G. Edge.



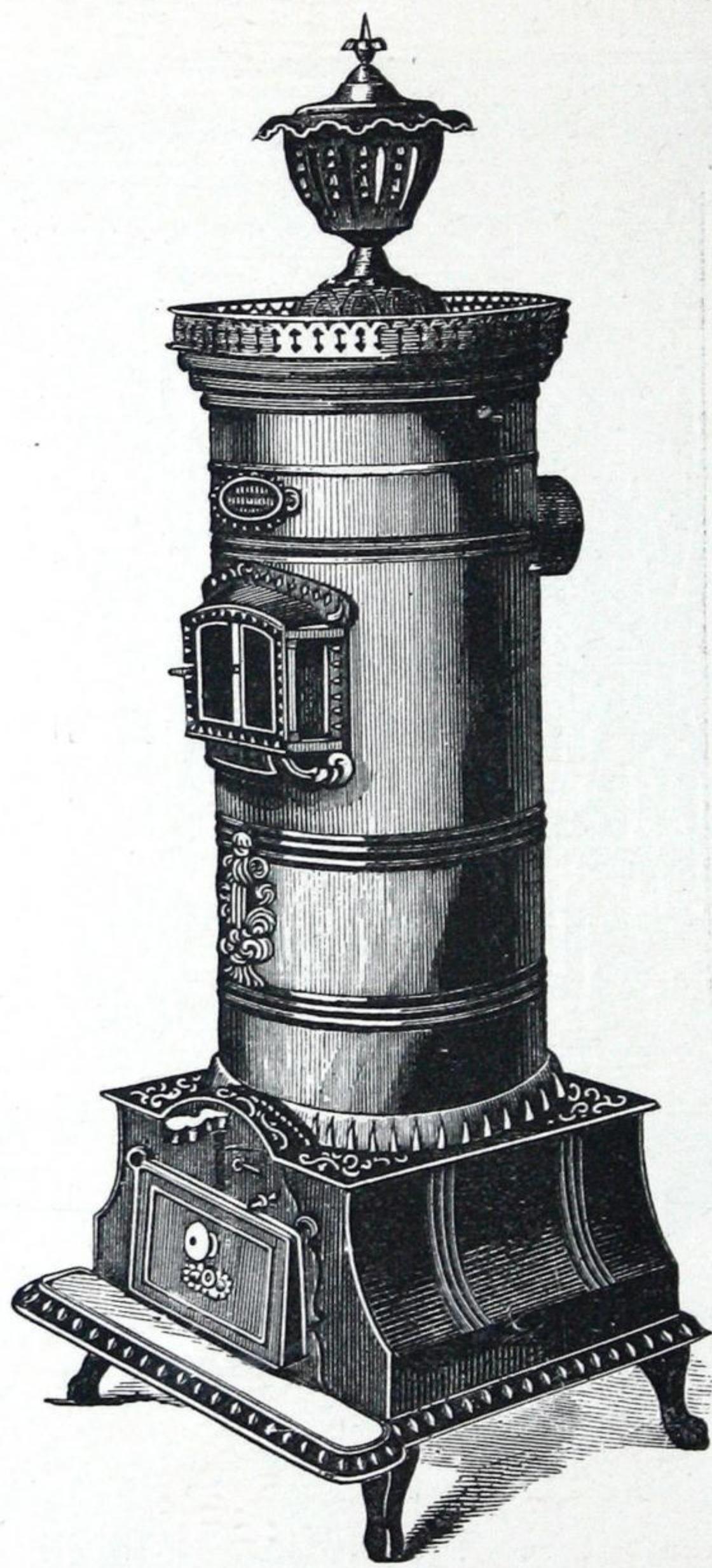
DESIRABLE TO PREVENT PERSONS STANDING ON THE REGISTER,
AND TO KEEP DIRT FROM IT.

Size at Base,	16x16	16x21	21x21
Gold Bronzed,	23 50	29 00	36 00
Copper Bronzed,	23 50	29 00	36 00
Chocolate Tip'd with Bronze,	21 50	26 50	33 00

Finished to order in any desired manner. One or more sides may be closed to protect walls or partitions if desired.

ANTI-DUST CLINKER.

ANTI-DUST PARLOR.



SIZES AND PRICES.

No. 9, -	\$15 00	No. 13, -	\$25 00
" 10, -	18 00	" 14, -	30 00
" 11, -	20 00	" 15, -	35 00
" 12, -	23 00		

This Stove is equally adapted for Coal, Coke or Wood.

Particular Attention is invited to this

CELEBRATED ANTI-DUST STOVE

FOR

PARLORS, HALLS, DINING ROOMS,

CHAMBERS, STORES, OFFICES, &c.

ADAPTED FOR BURNING

BITUMINOUS COAL, COKE OR WOOD.

THE HEATING QUALITIES of this excellent Stove have been improved over all other stoves of this class, by means of a PATENT DAMPER placed inside of the Stove at the Pipe Collar. When the fire is started this Damper is opened, which gives the Stove the full draught of the Pipe; after the fire is ignited the Damper is closed, which lessens the draught, and at the same time allows the gases to pass off through the Pipe. This causes the fire to burn more regularly, and adds to the heating qualities of the Stove over any now in use.

I CLAIM FOR THIS STOVE:

PERFECT CLEANLINESS IN POKING THE FIRE.

ENTIRE SAFETY OF THE FIRE.

IT REQUIRES VERY LITTLE ATTENTION.

THOROUGH VENTILATION OF THE ROOM, THUS PRESERVING THE HEALTH OF THE OCCUPANTS.

ENTIRE FREEDOM FROM DUST.

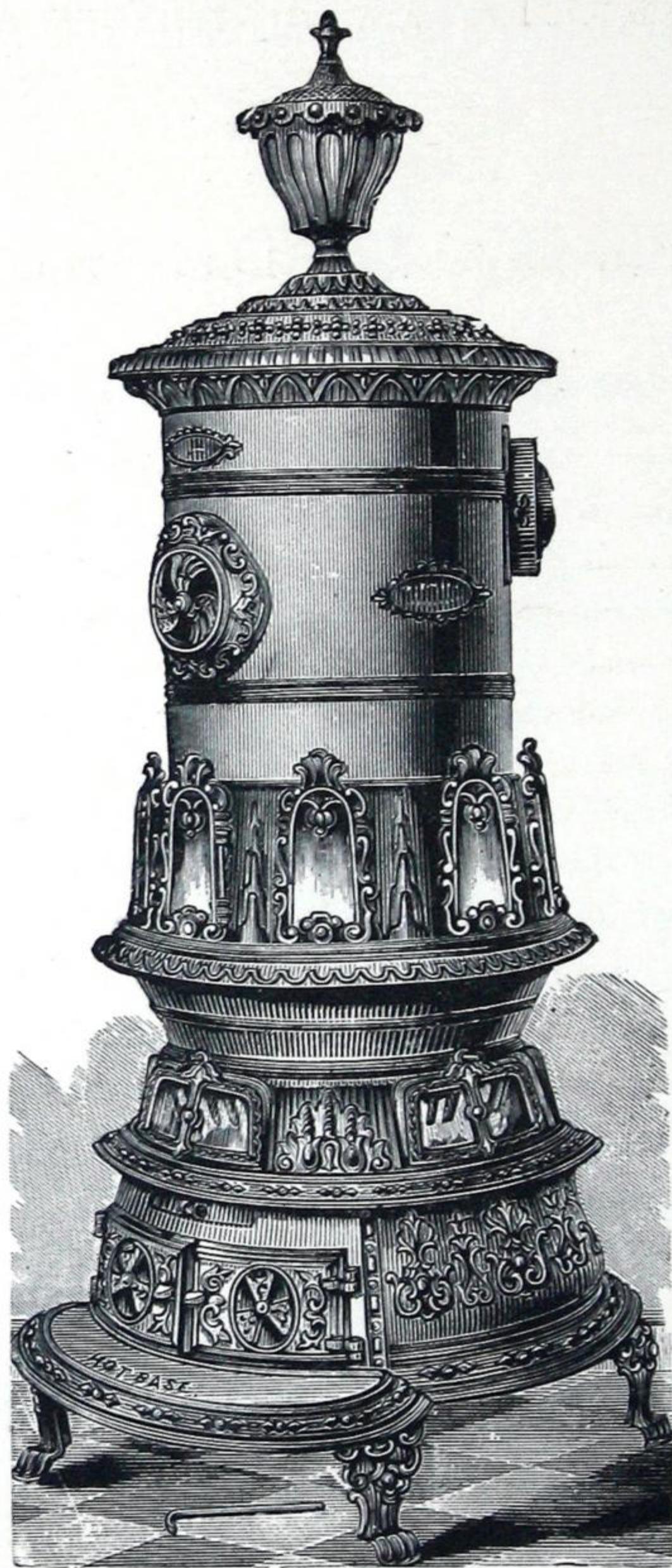
A UNIFORM AND WELL REGULATED HEAT.

A GAS-CONSUMER OF THE FIRST QUALITY.

GREAT ECONOMY IN FUEL.

NEATNESS, CHASTENESS AND BEAUTY.

HOT BASE ANTI-CLINKER.



PATENTED 1870.

No. 9,	-	\$18 00
" 11,	-	25 00
" 12,	-	30 00

No. 13,	-	\$33 00
" 14,	-	40 00
" 16,	-	50 00



SOMETHING NEW.

I OFFER TO THE TRADE

THE MOST PERFECT

Base-Burning and Illuminating Stove,

OF THIS AGE.

The theory of Base-Burning Stoves has been known in the scientific world for more than forty years. Numerous efforts have been made by Stove manufacturers and others to produce a perfect Base-Burning Stove, but they have signally failed, because no adequate means was invented for removing the slate and clinkers without dumping the fire out.

The object of the invention is to remove the ashes and clinkers from the fire-pot without dropping the fire out. This can be done every morning with less trouble than it takes to rake the old kind of Stoves, and a continuous fire be kept going always fresh on the grate. By this means the entire surface of this Stove can always be relied on for heat; but in other Stoves when the grate surface becomes covered with clinkers, and the cylinder half filled with ashes and clinkers, only the upper surface will afford heat,—thus very often resulting in the overheating and ruining of the Stove. With the Improved Grate the base of this Stove is always hot. In this Stove is given a bottom as well as a top view of the fire; whereas in all other Stoves the fire can only be seen from the top. With this improvement we can always see through the windows in the base and tell when the fire requires raking.

This Stove is also supplied with a Patent Damper at the smoke pipe, and the mica windows have been placed in a

PATENT REVOLVING CYLINDER.

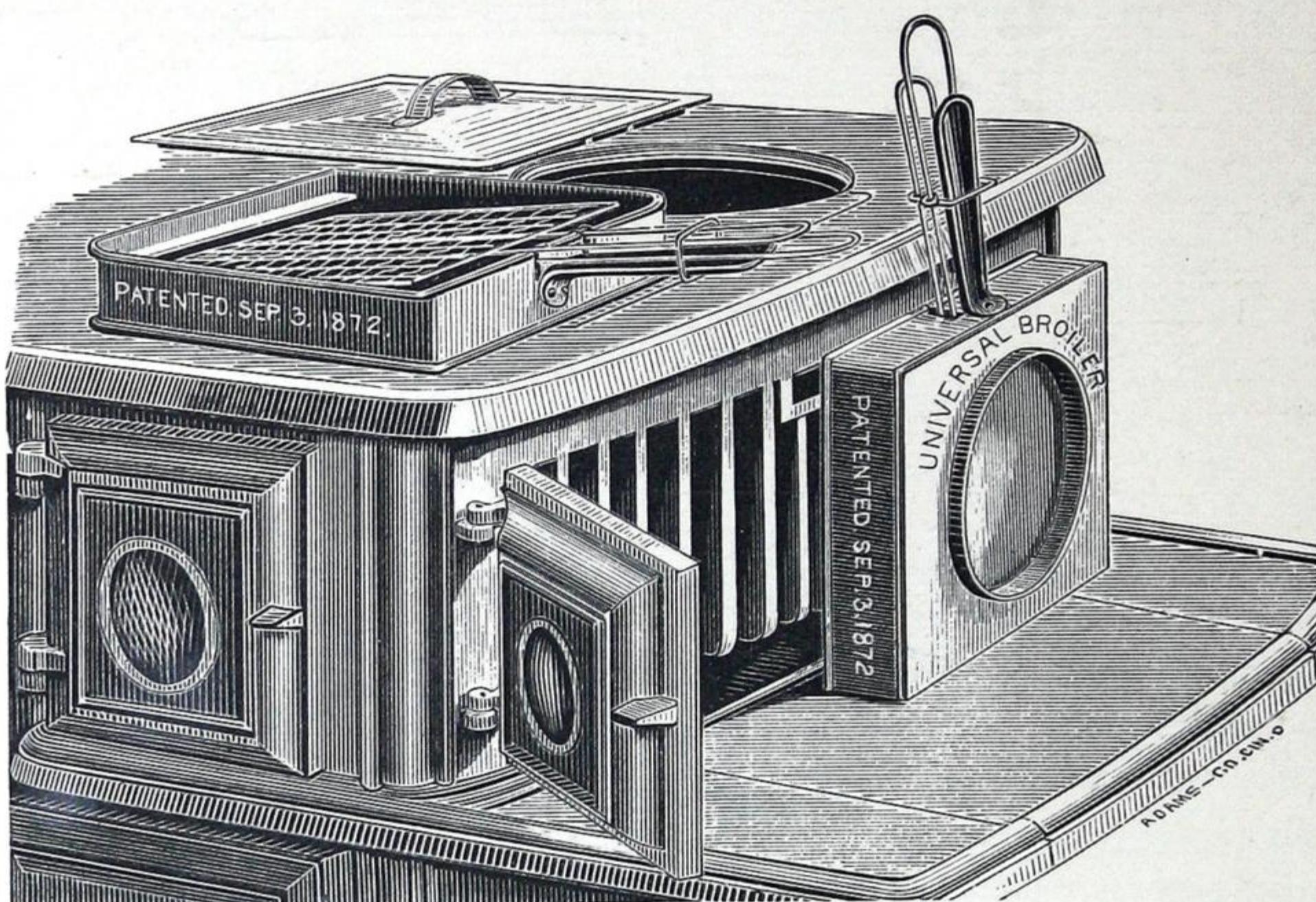
The windows can thus be closed while the fire is being kindled, and after the coal is ignited the cylinder can be reversed, throwing the windows open—entirely free from smoke—and presenting a PERFECTLY BRIGHT AND CLEAR LIGHT, *which cannot be produced in any other Stove.*

By these improvements we have entirely overcome the great objection to be found in all other illuminating Stoves.

We have now, however, after much thought and many expensive experiments, produced the most perfect Stove the world has ever seen. The construction of the grate and fire-pot is entirely new—nothing of the kind having heretofore been invented. The Patent Office at Washington has been thoroughly searched, and no invention bearing any resemblance can be found.

UNIVERSAL BROILER,

FOR TOP OR FRONT OF STOVE.



DOUBLE WIRE.

PATENTED SEPTEMBER 3d, 1872.

THE GREATEST IMPROVEMENT IN BROILERS YET MADE, AND
CHEAPER THAN ANY OTHER IN USE.

We invite every one interested in the use or sale of Meat Broilers to the following advantages of the Universal Broiler:—

1—It can be used equally well either on the top or in front of the Stove, the supporting wires sloping as shown in the above engraving, conducts the gravy to the receptacle prepared for it.

2—IT CAN BE USED ON ANY SIZED STOVE.

3—The Wire being Double the meat can be turned without the use of a fork.

4—When used in front it absorbs not only the direct heat of the fire, but the heat is reflected from the back by a tin provided for that purpose.

5—Neither dust nor smoke can get to the meat while being broiled.

6—It is the most convenient, easily cleaned and most satisfactory Broiler before the public.

It requires but an examination and test to show its superior advantages and favorable qualities.

PRICE, \$18.00 PER DOZEN.

DEALERS SUPPLIED AT A LIBERAL DISCOUNT.

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CCA

